Kansas Health & Environmental Laboratories
6810 SE Dwight Street
Topeka, KS 66620
Phone (785) 296-1620
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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Ryan Weiser
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C3-103-00027
Collector: Margaret Townsend
Location Desc: Neodesha Refinery Neodesha

Lab ID:	**223571**	Matrix:	Water
Sample ID:	**MW-155**	Date Collected:	11/4/2014 12:55
Description	**water**	Date Received:	11/4/2014 15:29

Comments

HCl Preservative.

Volatiles by EPA 8260

Analysis Desc: EPA 8260 — Preparation Method: EPA 8260 — Analytical Method: EPA 8260

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
1,1-Dichloroethylene	1.7	ug/L	0.5	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Dichlorodifluoromethane	4.7	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Chloromethane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Vinyl Chloride	64	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Bromomethane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Chloroethane	1.1	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Trichlorofluoromethane	9.3	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,1-Dichloroethane	6.3	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Dichloromethane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
MTBE	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
trans 1,2-Dichloroethylene	1.1	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
cis 1,2-Dichloroethylene	220	ug/L	10	20	11/13/2014 17:42	MJA	11/13/2014 17:42	MJA		
2,2-Dichloropropane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Xylene	<1.0	ug/L	1.0	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Bromochloromethane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Chloroform	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Carbon tetrachloride	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,1-Dichloropropene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Benzene	0.99	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,2-Dichloroethane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Trichloroethylene	20	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,2-Dichloropropane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Dibromomethane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Bromodichloromethane (THM)	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
cis-1,3-Dichloropropene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
trans-1,3-Dichloropropene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Toluene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,1,2-Trichloroethane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Tetrachloroethylene	24	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,3-Dichloropropane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		

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Report ID: 242415 - 1470406

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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Ryan Weiser
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C3-103-00027
Collector: Margaret Townsend
Location Desc: Neodesha Refinery Neodesha

Lab ID:	**223571**	Matrix:	Water
Sample ID:	**MW-155**	Date Collected:	11/4/2014 12:55
Description	**water**	Date Received:	11/4/2014 15:29

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
Dibromochloromethane (THM)	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Chlorobenzene	1.2	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Ethylbenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
m,p-Xylene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
o-Xylene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Styrene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Bromoform (THM)	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Isopropylbenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
n-Propylbenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Bromobenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
4-Chlorotoluene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
2-Chlorotoluene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
tert-Butylbenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
sec-Butylbenzene	0.82	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
p-Isopropyltoluene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
n-Butylbenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,4-Dichlorobenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,2-Dichlorobenzene	3.5	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,2-Dibromo-3-chloropropane	<0.020	ug/L	0.020	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Hexachlorobutadiene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
Naphthalene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1	11/6/2014 21:59	MJA	11/6/2014 21:59	MJA		

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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Ryan Weiser
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C3-103-00027
Collector: Margaret Townsend
Location Desc: Neodesha Refinery Neodesha

Lab ID:	**223572**	Matrix:	Water
Sample ID:	**MW-154**	Date Collected:	11/4/2014 11:07
Description	**water outside Airosol**	Date Received:	11/4/2014 15:29

Comments

HCl Preserved.

Volatiles by EPA 8260

Analysis Desc: EPA 8260 — Preparation Method: EPA 8260 — Analytical Method: EPA 8260

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
1,1-Dichloroethylene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Dichlorodifluoromethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Chloromethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Vinyl Chloride	1900	ug/L	25	50	11/13/2014 18:05	MJA	11/13/2014 18:05	MJA		
Bromomethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Chloroethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Trichlorofluoromethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,1-Dichloroethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Dichloromethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
MTBE	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
trans 1,2-Dichloroethylene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
cis 1,2-Dichloroethylene	3000	ug/L	25	50	11/13/2014 18:05	MJA	11/13/2014 18:05	MJA		
2,2-Dichloropropane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Xylene	<20	ug/L	20	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Bromochloromethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Chloroform	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Carbon tetrachloride	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,1,1-Trichloroethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,1-Dichloropropene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Benzene	11	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,2-Dichloroethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Trichloroethylene	67	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,2-Dichloropropane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Dibromomethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Bromodichloromethane (THM)	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
cis-1,3-Dichloropropene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
trans-1,3-Dichloropropene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Toluene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,1,2-Trichloroethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Tetrachloroethylene	21	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,3-Dichloropropane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		

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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Ryan Weiser
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C3-103-00027
Collector: Margaret Townsend
Location Desc: Neodesha Refinery Neodesha

Lab ID:	**223572**	Matrix:	Water
Sample ID:	**MW-154**	Date Collected:	11/4/2014 11:07
Description	**water outside Airosol**	Date Received:	11/4/2014 15:29

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
Dibromochloromethane (THM)	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Chlorobenzene	21	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,1,1,2-Tetrachloroethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Ethylbenzene	37	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
m,p-Xylene	14	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
o-Xylene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Styrene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Bromoform (THM)	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,1,2,2-Tetrachloroethane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Isopropylbenzene	37	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
n-Propylbenzene	94	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Bromobenzene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,2,3-Trichloropropane	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
4-Chlorotoluene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
2-Chlorotoluene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,3,5-Trimethylbenzene	26	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
tert-Butylbenzene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,2,4-Trimethylbenzene	140	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
sec-Butylbenzene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
p-Isopropyltoluene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
n-Butylbenzene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,3-Dichlorobenzene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,4-Dichlorobenzene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,2-Dichlorobenzene	61	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,2-Dibromo-3-chloropropane	<0.40	ug/L	0.40	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Hexachlorobutadiene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
Naphthalene	15	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,2,4-Trichlorobenzene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		
1,2,3-Trichlorobenzene	<10	ug/L	10	20	11/13/2014 18:28	MJA	11/13/2014 18:28	MJA		

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Report ID: 242416 - 1470408

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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Maura O'Halloran
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C3-103-00027
Collector: Margaret Townsend
Location Desc: Neodesha Refinery Neodesha

Lab ID: **223573**
Sample ID: **Trip Blank**
Description

Matrix: Water
Date Collected:
Date Received: 11/4/2014 15:30

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
Volatiles by EPA 8260										
Analysis Desc: EPA 8260			Preparation Method: EPA 8260							
			Analytical Method: EPA 8260							
1,1-Dichloroethylene	<0.5	ug/L	0.5	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Dichlorodifluoromethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Chloromethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Vinyl Chloride	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Bromomethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Chloroethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Trichlorofluoromethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,1-Dichloroethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Dichloromethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
MTBE	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
trans 1,2-Dichloroethylene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
cis 1,2-Dichloroethylene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
2,2-Dichloropropane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Xylene	<1.0	ug/L	1.0	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Bromochloromethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Chloroform	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Carbon tetrachloride	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,1-Dichloropropene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Benzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,2-Dichloroethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Trichloroethylene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,2-Dichloropropane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Dibromomethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Bromodichloromethane (THM)	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
cis-1,3-Dichloropropene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
trans-1,3-Dichloropropene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Toluene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,1,2-Trichloroethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Tetrachloroethylene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,3-Dichloropropane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Dibromochloromethane (THM)	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Chlorobenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		

Report Date: Tuesday, November 18, 2014 3:01:11 PM
Report ID: 242417 - 1470402

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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Maura O'Halloran
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C3-103-00027
Collector: Margaret Townsend
Location Desc: Neodesha Refinery Neodesha

Lab ID: **223573**
Sample ID: **Trip Blank**
Description

Matrix: Water
Date Collected:
Date Received: 11/4/2014 15:30

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
1,1,1,2-Tetrachloroethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Ethylbenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
m,p-Xylene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
o-Xylene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Styrene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Bromoform (THM)	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Isopropylbenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
n-Propylbenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Bromobenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,2,3-Trichloropropane	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
4-Chlorotoluene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
2-Chlorotoluene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,3,5-Trimethylbenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
tert-Butylbenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,2,4-Trimethylbenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
sec-Butylbenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
p-Isopropyltoluene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
n-Butylbenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,4-Dichlorobenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,2-Dichlorobenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,2-Dibromo-3-chloropropane	<0.020	ug/L	0.020	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Hexachlorobutadiene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
Naphthalene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1	11/13/2014 16:56	MJA	11/13/2014 16:56	MJA		

Report Date: Tuesday, November 18, 2014 3:01:19 PM
Report ID: 242417 - 1470402

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Environmental Chain of Custody Form

7243

Additional Report Recipients			
To	Margaret Townsend		
Address	mtownsende kdheks.gov	Address	

Client:	BER Remedial Section	Location Name:	Neodesha Refinery	Notes:	
Profile:	SCP	Collector:	MT JY		
Location Code:	C2-103-00027	Event Desc:	GW sampling		

Known Hazards			
Flammable		Poison	
Radiological		Other	

#	Sample ID, Description (Matrix Codes: DW=Drinking Water W=Water WW=Waste Water SO=Soil SL=Solid SD=Sediment)	Matrix	Collection: Actual Collection Date	Collection: Actual Collection Time	Sample Comments	Analyses: 8260	Total number of containers	Field Test Results: Sample Depth	Field Filtered	DO	Temp	pH	Conductivity
1	MW-154	W	11-4-14	11:07	HCl preserved	X	3						
2	Trip Blank	W				X	2						

HSN:223572 SAMPID:MW-154

HSN:223573 SAMPID:Trip Blan

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Sample Condition			
Received on Ice		Samples Intact	
Y	N	Y	N
Y	N	Y	N
Y	N	Y	N

Receipt
Temperature:

CHEMWARE 2001.1.0.0

Kansas Department of Health and Environment
Health and Environmental Laboratories

Environmental Chain of Custody Form

7243

Additional Report Recipients			
To	~~mto~~ Margaret Townsend		
Address	mtownsendekdhek.gov	Address	

Client:	BER Remedial Section	Location Name:	Neodesha Refinery	Notes:	
Profile:	SCP	Collector:	mt JY		
Location Code:	C3-103-00027	Event Desc:	GW sampling		

Known Hazards			
Flammable		Poison	
Radiological		Other	

#	Sample ID, Description (Matrix Codes: DW=Drinking Water W=Water WW=Waste Water SO=Soil SL=Solid SD=Sediment)	Matrix	Collection: Actual Collection Date	Collection: Actual Collection Time	Sample Comments	Analyses: 8260	Total number of containers	Field Test Results: Sample Depth	Field Filtered	DO	Temp	pH	Conductivity
1	MW-155	W	11-4-14	12:55	HCl preservative	X	3						
2													

HSN:223571
SAMPID:MW-155

Transfers	Released By	Date/Time	Received By	Date/Time
1	Margaret A Townsend	1510 11-4-14	Ron Peterson	
2				
3				

Sample Condition			
Received on Ice		Samples Intact	
Y	N	Y	N
Y	N	Y	N
Y	N	Y	N

Receipt
Temperature:

DIV. OF H&E
LABORATORIES
2014 NOV -4 PM 3:31

CHEMWARE 2001.1.0.0

Kansas Health & Environmental Laboratories
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Phone (785) 296-1620
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QUALITY CONTROL REFERENCE TABLE

Project: C3-103-00027: Neodesha Refinery Neodesha
Chain of Custody No: 7243

Lab ID	Sample ID	Analytical Method	Batch
223571	MW-155	EPA 8260	VOC 1199
223572	MW-154	EPA 8260	VOC 1199
223573	Trip Blank	EPA 8260	VOC 1199

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QUALITY CONTROL DATA

Project: C3-103-00027: Neodesha Refinery Neodesha
Chain of Custody No: 7243

QC Batch: VOC 1199 **Analysis Method:** EPA 8260
QC Bath Method: EPA 8260
Associated Lab Samples: 223571, 223572, 223573

METHOD BLANK: 227312

Parameters	Blank Result	Units	RDL	Analyzed	Qualifiers
1,1-Dichloroethylene	ND	ug/L	0.50	11/6/2014 11:31	
Dichlorodifluoromethane	ND	ug/L	0.50	11/6/2014 11:31	
Chloromethane	ND	ug/L	0.50	11/6/2014 11:31	
Vinyl Chloride	ND	ug/L	0.50	11/6/2014 11:31	
Bromomethane	ND	ug/L	0.50	11/6/2014 11:31	
Chloroethane	ND	ug/L	0.50	11/6/2014 11:31	
Trichlorofluoromethane	ND	ug/L	0.50	11/6/2014 11:31	
1,1-Dichloroethane	ND	ug/L	0.50	11/6/2014 11:31	
Dichloromethane	ND	ug/L	0.50	11/6/2014 11:31	
MTBE	ND	ug/L	0.50	11/6/2014 11:31	
trans 1,2-Dichloroethylene	ND	ug/L	0.50	11/6/2014 11:31	
cis 1,2-Dichloroethylene	ND	ug/L	0.50	11/6/2014 11:31	
2,2-Dichloropropane	ND	ug/L	0.50	11/6/2014 11:31	
Xylene	ND	ug/L	1.0	11/6/2014 11:31	
Bromochloromethane	ND	ug/L	0.50	11/6/2014 11:31	
Chloroform	ND	ug/L	0.50	11/6/2014 11:31	
Carbon tetrachloride	ND	ug/L	0.50	11/6/2014 11:31	
1,1,1-Trichloroethane	ND	ug/L	0.50	11/6/2014 11:31	
1,1-Dichloropropene	ND	ug/L	0.50	11/6/2014 11:31	
Benzene	ND	ug/L	0.50	11/6/2014 11:31	
1,2-Dichloroethane	ND	ug/L	0.50	11/6/2014 11:31	
Trichloroethylene	ND	ug/L	0.50	11/6/2014 11:31	
1,2-Dichloropropane	ND	ug/L	0.50	11/6/2014 11:31	
Dibromomethane	ND	ug/L	0.50	11/6/2014 11:31	
Bromodichloromethane (THM)	ND	ug/L	0.50	11/6/2014 11:31	
cis 1,3-Dichloropropene	ND	ug/L	0.50	11/6/2014 11:31	
trans 1,3-Dichloropropene	ND	ug/L	0.50	11/6/2014 11:31	
Toluene	ND	ug/L	0.50	11/6/2014 11:31	
1,1,2-Trichloroethane	ND	ug/L	0.50	11/6/2014 11:31	
Tetrachloroethylene	ND	ug/L	0.50	11/6/2014 11:31	
1,3-Dichloropropane	ND	ug/L	0.50	11/6/2014 11:31	
Dibromochloromethane (THM)	ND	ug/L	0.50	11/6/2014 11:31	
Chlorobenzene	ND	ug/L	0.50	11/6/2014 11:31	

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QUALITY CONTROL DATA

Project: C3-103-00027: Neodesha Refinery Neodesha
Chain of Custody No: 7243

QC Batch: VOC 1199 **Analysis Method:** EPA 8260
QC Bath Method: EPA 8260
Associated Lab Samples: 223571, 223572, 223573

METHOD BLANK: 227312

Parameters	Blank Result	Units	RDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	11/6/2014 11:31	
Ethylbenzene	ND	ug/L	0.50	11/6/2014 11:31	
m,p-Xylene	ND	ug/L	0.50	11/6/2014 11:31	
o-Xylene	ND	ug/L	0.50	11/6/2014 11:31	
Styrene	ND	ug/L	0.50	11/6/2014 11:31	
Bromoform (THM)	ND	ug/L	0.50	11/6/2014 11:31	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	11/6/2014 11:31	
Isopropylbenzene	ND	ug/L	0.50	11/6/2014 11:31	
n-Propylbenzene	ND	ug/L	0.50	11/6/2014 11:31	
Bromobenzene	ND	ug/L	0.50	11/6/2014 11:31	
1,2,3-Trichloropropane	ND	ug/L	0.50	11/6/2014 11:31	
4-Chlorotoluene	ND	ug/L	0.50	11/6/2014 11:31	
2-Chlorotoluene	ND	ug/L	0.50	11/6/2014 11:31	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	11/6/2014 11:31	
tert-Butylbenzene	ND	ug/L	0.50	11/6/2014 11:31	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	11/6/2014 11:31	
sec-Butylbenzene	ND	ug/L	0.50	11/6/2014 11:31	
p-Isopropyltoluene	ND	ug/L	0.50	11/6/2014 11:31	
n-Butylbenzene	ND	ug/L	0.50	11/6/2014 11:31	
1,3-Dichlorobenzene	ND	ug/L	0.50	11/6/2014 11:31	
1,4-Dichlorobenzene	ND	ug/L	0.50	11/6/2014 11:31	
1,2-Dichlorobenzene	ND	ug/L	0.50	11/6/2014 11:31	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.020	11/6/2014 11:31	
Hexachlorobutadiene	ND	ug/L	0.50	11/6/2014 11:31	
Naphthalene	ND	ug/L	0.50	11/6/2014 11:31	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	11/6/2014 11:31	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	11/6/2014 11:31	

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QUALITY CONTROL DATA

Project: C3-103-00027: Neodesha Refinery Neodesha
Chain of Custody No: 7243

QC Batch: VOC 1199 **Analysis Method:** EPA 8260
QC Bath Method: EPA 8260
Associated Lab Samples: 223571, 223572, 223573

Laboratory Fortified Blank: 227314

Parameters	Spike Conc	Units	LFB Result	LFB % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethylene	0.50	ug/L	0.45	91	70-130	
Dichlorodifluoromethane	0.50	ug/L	0.28	56	70-130	
Chloromethane	0.50	ug/L	0.44	88	70-130	
Vinyl Chloride	0.50	ug/L	0.52	103	70-130	
Bromomethane	0.50	ug/L	0.54	109	70-130	
Chloroethane	0.50	ug/L	0.49	99	70-130	
Trichlorofluoromethane	0.50	ug/L	0.51	102	70-130	
1,1-Dichloroethane	0.50	ug/L	0.44	89	70-130	
Dichloromethane	0.50	ug/L	0.67	134	70-130	
MTBE	0.50	ug/L	0.77	154	70-130	
trans 1,2-Dichloroethylene	0.50	ug/L	0.44	87	70-130	
cis 1,2-Dichloroethylene	0.50	ug/L	0.72	143	70-130	
2,2-Dichloropropane	0.50	ug/L	0.59	118	70-130	
Xylene	1.0	ug/L	0.83	83	70-130	
Bromochloromethane	0.50	ug/L	0.47	94	70-130	
Chloroform	0.50	ug/L	0.48	95	70-130	
Carbon tetrachloride	0.50	ug/L	0.61	121	70-130	
1,1,1-Trichloroethane	0.50	ug/L	0.45	91	70-130	
1,1-Dichloropropene	0.50	ug/L	0.49	99	70-130	
Benzene	0.50	ug/L	0.44	88	70-130	
1,2-Dichloroethane	0.50	ug/L	0.47	94	70-130	
Trichloroethylene	0.50	ug/L	0.53	107	70-130	
1,2-Dichloropropane	0.50	ug/L	0.41	82	70-130	
Dibromomethane	0.50	ug/L	0.51	101	70-130	
Bromodichloromethane (THM)	0.50	ug/L	0.47	94	70-130	
cis 1,3-Dichloropropene	0.50	ug/L	0.45	90	70-130	
trans 1,3-Dichloropropene	0.50	ug/L	0.44	88	70-130	
Toluene	0.50	ug/L	0.46	92	70-130	
1,1,2-Trichloroethane	0.50	ug/L	0.48	95	70-130	
Tetrachloroethylene	0.50	ug/L	0.52	104	70-130	
1,3-Dichloropropane	0.50	ug/L	0.46	93	70-130	
Dibromochloromethane (THM)	0.50	ug/L	0.45	90	70-130	

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QUALITY CONTROL DATA

Project: C3-103-00027: Neodesha Refinery Neodesha
Chain of Custody No: 7243

QC Batch: VOC 1199 **Analysis Method:** EPA 8260
QC Bath Method: EPA 8260
Associated Lab Samples: 223571, 223572, 223573

Laboratory Fortified Blank: 227314

Parameters	Spike Conc	Units	LFB Result	LFB % Rec	% Rec Limits	Qualifiers
Chlorobenzene	0.50	ug/L	0.42	84	70-130	
1,1,1,2-Tetrachloroethane	0.50	ug/L	0.38	75	70-130	
Ethylbenzene	0.50	ug/L	0.39	79	70-130	
m,p-Xylene	1.0	ug/L	0.83	83	70-130	
o-Xylene	0.50	ug/L	0.43	86	70-130	
Styrene	0.50	ug/L	0.39	78	70-130	
Bromoform (THM)	0.50	ug/L	0.48	97	70-130	
1,1,2,2-Tetrachloroethane	0.50	ug/L	0.41	83	70-130	
Isopropylbenzene	0.50	ug/L	0.39	79	70-130	
n-Propylbenzene	0.50	ug/L	0.42	84	70-130	
Bromobenzene	0.50	ug/L	0.49	98	70-130	
1,2,3-Trichloropropane	0.50	ug/L	0.48	96	70-130	
4-Chlorotoluene	0.50	ug/L	0.36	72	70-130	
2-Chlorotoluene	0.50	ug/L	0.40	80	70-130	
1,3,5-Trimethylbenzene	0.50	ug/L	0.40	81	70-130	
tert-Butylbenzene	0.50	ug/L	0.41	81	70-130	
1,2,4-Trimethylbenzene	0.50	ug/L	0.36	72	70-130	
sec-Butylbenzene	0.50	ug/L	0.39	78	70-130	
p-Isopropyltoluene	0.50	ug/L	0.34	69	70-130	
n-Butylbenzene	0.50	ug/L	0.45	90	70-130	
1,3-Dichlorobenzene	0.50	ug/L	0.37	74	70-130	
1,4-Dichlorobenzene	0.50	ug/L	0.40	80	70-130	
1,2-Dichlorobenzene	0.50	ug/L	0.45	90	70-130	
1,2-Dibromo-3-chloropropane	0.50	ug/L	0.66	132	70-130	
Hexachlorobutadiene	0.50	ug/L	0.29	58	70-130	
Naphthalene	0.50	ug/L	0.58	116	70-130	
1,2,4-Trichlorobenzene	0.50	ug/L	0.58	115	70-130	
1,2,3-Trichlorobenzene	0.50	ug/L	0.54	108	70-130	

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

February 18, 2015

Trevor Gustafson
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

RE: Project: KDHE NEODESHA
Pace Project No.: 60181930

Dear Trevor Gustafson:
Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: TREVOR GUSTAFSON, BURNS & MCDONNELL

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Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: KDHE NEODESHA
Pace Project No.: 60181930

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60181930001	**MW-152**	Water	11/04/14 08:33	11/05/14 08:15
60181930002	**FIELD BLANK**	Water	11/04/14 09:28	11/05/14 08:15
60181930003	**MW-154/GW-01**	Water	11/04/14 11:07	11/05/14 08:15
60181930004	**TB-02**	Water	11/04/14 08:33	11/05/14 08:15

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60181930

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60181930001	**MW-152**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	50
		EPA 8260/OA1	PRG	5
		SM 4500-H+B	JML	1
60181930002	**FIELD BLANK**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	50
		EPA 8260/OA1	PRG	5
		SM 4500-H+B	JML	1
60181930003	**MW-154/GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	50
		EPA 8260/OA1	PRG	5
		SM 4500-H+B	JML	1
60181930004	**TB-02**	EPA 5030B/8260	PRG	50
		EPA 8260/OA1	EAK	5

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Date: February 18, 2015

. Amended report revised for results reported for MW-152, 60181930001.

A library scan was performed for the volatiles method EPA 8260 and the Tentatively Identified Compound reports are included per each sample. The compound Isopropanol was not identified in the search.

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Date: February 18, 2015

MW-152 (Lab ID: 60181930001)

• During the review process associated with the lab inquiry into the dilutions associated with MW-152, it was noticed that sample 60181930001 was originally analyzed at a 50-fold dilution just after a sample that contained extremely high levels of vinyl chloride and 1,2-Dichloroethene (total). These levels were such that it is expected both were carried over into sample 60181930001 at the 50X dilution. This sample was re-analyzed two days later again at the 50X dilution, but the only compound reported was Hexachloro-1,3-butadiene due to an LCS issue on the original analyses. The compounds Vinyl Chloride and 1,2-Dichloroethene (total) should have also been reported from this analyses, since there was no carry-over associated with this analyses. Neither compound was detected in the re-analyses confirming that the original analyses did have carry-over.

FIELD BLANK (Lab ID: 60181930002)

• The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

For the re-extraction of OA2, the method detection limit for TEH as Diesel No.2 is 0.62 mg/L for Field Blank sample.

MW-154/GW-01 (Lab ID: 60181930003)

• The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

For the re-extraction of OA2, the method detection limit for TEH as Diesel No.2 is 0.67 mg/L for sample MW-154/GW-01.

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for OA2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H2: Extraction or preparation conducted outside EPA method holding time.
- FIELD BLANK (Lab ID: 60181930002)
- MW-154/GW-01 (Lab ID: 60181930003)

Sample Preparation:
The samples were prepared in accordance with OA2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: OEXT/47005

B: Analyte was detected in the associated method blank.
- BLANK for HBN 362458 [OEXT/470 (Lab ID: 1473887)
  - TEH as Diesel No.2

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/47005

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: OEXT/47087

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: February 18, 2015

Analyte Comments:

QC Batch: OEXT/47005

1e: The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to late motor oil range. Quantitation achieved using diesel fuel as a reference standard.

- FIELD BLANK (Lab ID: 60181930002)
  - TEH as Diesel No.2
- MW-152 (Lab ID: 60181930001)
  - TEH as Diesel No.2
- MW-154/GW-01 (Lab ID: 60181930003)
  - TEH as Diesel No.2

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Method: **EPA 7470**
Description: 7470 Mercury
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/9033

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60181930003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1476534)
  - Mercury, Dissolved
- MSD (Lab ID: 1476535)
  - Mercury, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 8270C by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/47004

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65590

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/65646

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Method: **EPA 8260/OA1**
Description: 8260/OA1 UST, Water
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
4 samples were analyzed for EPA 8260/OA1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65594

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/65670

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- FIELD BLANK (Lab ID: 60181930002)
- MW-152 (Lab ID: 60181930001)
- MW-154/GW-01 (Lab ID: 60181930003)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: MW-152 **Lab ID: 60181930001** Collected: 11/04/14 08:33 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:01	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:01	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:01	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:01	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:01	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:01	64742-65-0	
TEH as Diesel No.2	**6.8**	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:01		1e
Surrogates								
p-Terphenyl (S)	97	%	29-122	1	11/06/14 00:00	11/07/14 14:01	92-94-4	
n-Tetracosane (S)	93	%	20-120	1	11/06/14 00:00	11/07/14 14:01	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**33.1**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:14	7440-38-2	
Barium	**500**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:14	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:14	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:14	7440-47-3	
Lead	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:14	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/08/14 17:15	11/12/14 11:14	7782-49-2	
Silver	ND	ug/L	7.0	1	11/08/14 17:15	11/12/14 11:14	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**32.4**	ug/L	10.0	1	11/13/14 14:45	11/14/14 13:35	7440-38-2	
Barium, Dissolved	**551**	ug/L	10.0	1	11/13/14 14:45	11/14/14 13:35	7440-39-3	D9
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 13:35	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 13:35	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 13:35	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 13:35	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 13:35	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 11:29	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 11:59	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	106-46-7	
Diethylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	105-67-9	
Dimethylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	84-74-2	
2,4-Dinitrophenol	ND	ug/L	51.5	1	11/07/14 00:00	11/12/14 22:58	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: MW-152 **Lab ID: 60181930001** Collected: 11/04/14 08:33 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58		
4-Nitrophenol	ND	ug/L	51.5	1	11/07/14 00:00	11/12/14 22:58	100-02-7	
Phenol	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	108-95-2	
Pyridine	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	110-86-1	
Quinoline	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 22:58	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	78	%	10-135	1	11/07/14 00:00	11/12/14 22:58	4165-60-0	
2-Fluorobiphenyl (S)	80	%	19-124	1	11/07/14 00:00	11/12/14 22:58	321-60-8	
Terphenyl-d14 (S)	91	%	24-131	1	11/07/14 00:00	11/12/14 22:58	1718-51-0	
Phenol-d6 (S)	28	%	10-120	1	11/07/14 00:00	11/12/14 22:58	13127-88-3	
2-Fluorophenol (S)	14	%	13-120	1	11/07/14 00:00	11/12/14 22:58	367-12-4	
2,4,6-Tribromophenol (S)	91	%	29-121	1	11/07/14 00:00	11/12/14 22:58	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.86**	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	83-32-9	
Acenaphthylene	**0.29**	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	206-44-0	
Fluorene	**0.68**	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	193-39-5	
1-Methylnaphthalene	**85.4**	ug/L	25.0	50	11/06/14 00:00	11/10/14 16:28	90-12-0	
2-Methylnaphthalene	**145**	ug/L	25.0	50	11/06/14 00:00	11/10/14 16:28	91-57-6	
Naphthalene	**490**	ug/L	25.0	50	11/06/14 00:00	11/10/14 16:28	91-20-3	
Phenanthrene	**0.74**	ug/L	0.50	1	11/06/14 00:00	11/07/14 16:29	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:29	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	89	%	36-120	1	11/06/14 00:00	11/07/14 16:29	321-60-8	
Terphenyl-d14 (S)	94	%	29-134	1	11/06/14 00:00	11/07/14 16:29	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	500	50		11/06/14 20:35	67-64-1	
Benzene	**4230**	ug/L	50.0	50		11/06/14 20:35	71-43-2	
Bromodichloromethane	ND	ug/L	50.0	50		11/06/14 20:35	75-27-4	
2-Butanone (MEK)	ND	ug/L	500	50		11/06/14 20:35	78-93-3	
n-Butylbenzene	**112**	ug/L	50.0	50		11/06/14 20:35	104-51-8	
sec-Butylbenzene	**67.1**	ug/L	50.0	50		11/06/14 20:35	135-98-8	
tert-Butyl Alcohol	ND	ug/L	500	50		11/06/14 20:35	75-65-0	
Carbon disulfide	ND	ug/L	250	50		11/06/14 20:35	75-15-0	
Chlorobenzene	ND	ug/L	50.0	50		11/06/14 20:35	108-90-7	
Chloroethane	ND	ug/L	50.0	50		11/06/14 20:35	75-00-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: MW-152 **Lab ID: 60181930001** Collected: 11/04/14 08:33 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloroform	ND	ug/L	50.0	50		11/06/14 20:35	67-66-3	
Chloromethane	ND	ug/L	50.0	50		11/06/14 20:35	74-87-3	
Dibromochloromethane	ND	ug/L	50.0	50		11/06/14 20:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		11/06/14 20:35	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		11/06/14 20:35	74-95-3	
1,1-Dichloroethane	ND	ug/L	50.0	50		11/06/14 20:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		11/06/14 20:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	50.0	50		11/10/14 15:16	540-59-0	
1,1-Dichloroethene	ND	ug/L	50.0	50		11/06/14 20:35	75-35-4	
1,2-Dichloropropane	ND	ug/L	50.0	50		11/06/14 20:35	78-87-5	
Ethylbenzene	**8050**	ug/L	50.0	50		11/06/14 20:35	100-41-4	
2-Hexanone	ND	ug/L	500	50		11/06/14 20:35	591-78-6	
Isopropylbenzene (Cumene)	**470**	ug/L	50.0	50		11/06/14 20:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		11/06/14 20:35	99-87-6	
Methylene chloride	ND	ug/L	50.0	50		11/06/14 20:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	50		11/06/14 20:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		11/06/14 20:35	1634-04-4	
n-Propylbenzene	**1080**	ug/L	50.0	50		11/06/14 20:35	103-65-1	
Styrene	ND	ug/L	50.0	50		11/06/14 20:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		11/06/14 20:35	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	50		11/06/14 20:35	127-18-4	
Toluene	**477**	ug/L	50.0	50		11/06/14 20:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		11/06/14 20:35	71-55-6	
Trichloroethene	ND	ug/L	50.0	50		11/06/14 20:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		11/06/14 20:35	75-69-4	
1,2,4-Trimethylbenzene	**4450**	ug/L	50.0	50		11/06/14 20:35	95-63-6	
1,3,5-Trimethylbenzene	**1160**	ug/L	50.0	50		11/06/14 20:35	108-67-8	
Vinyl chloride	ND	ug/L	50.0	50		11/10/14 15:16	75-01-4	
Xylene (Total)	**23600**	ug/L	150	50		11/06/14 20:35	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	5000	50		11/06/14 20:35	123-91-1	
Vinyl acetate	ND	ug/L	500	50		11/06/14 20:35	108-05-4	
Acrylonitrile	ND	ug/L	1000	50		11/06/14 20:35	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	250	50		11/06/14 20:35	110-57-6	
tert-Amylmethyl ether	ND	ug/L	50.0	50		11/06/14 20:35	994-05-8	
Diisopropyl ether	ND	ug/L	50.0	50		11/06/14 20:35	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	50.0	50		11/06/14 20:35	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	50		11/06/14 20:35	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120	50		11/06/14 20:35	17060-07-0	
Toluene-d8 (S)	88	%	80-120	50		11/06/14 20:35	2037-26-5	
Preservation pH	**1.0**		0.10	50		11/06/14 20:35		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**92.9**	mg/L	25.0	50		11/10/14 15:16		
Surrogates								
Toluene-d8 (S)	100	%	80-120	50		11/10/14 15:16	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	50		11/10/14 15:16	460-00-4	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: MW-152 **Lab ID: 60181930001** Collected: 11/04/14 08:33 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	80-120	50		11/10/14 15:16	17060-07-0	
Preservation pH	**1.0**		0.10	50		11/10/14 15:16		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		11/06/14 13:15		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: FIELD BLANK **Lab ID: 60181930002** Collected: 11/04/14 09:28 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

For the re-extraction of OA2, the method detection limit for TEH as Diesel No.2 is 0.62 mg/L for Field Blank sample.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:23	68334-30-5	
Diesel Fuel	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:42	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:23	68553-00-4	
Fuel Oil	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:42	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:23	94114-58-6	
Jet Fuel	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:42	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:23	8008-20-6	
Kerosene	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:42	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:23	8030-30-6	
Mineral Spirits	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:42	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:23	64742-65-0	
Motor Oil	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:42	64742-65-0	H2
TEH as Diesel No.2	**0.46**	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:23		1e,B
TEH as Diesel No.2	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:42		H2
Surrogates								
p-Terphenyl (S)	82	%	29-122	1	11/12/14 00:00	11/13/14 21:42	92-94-4	
p-Terphenyl (S)	80	%	29-122	1	11/06/14 00:00	11/07/14 14:23	92-94-4	
n-Tetracosane (S)	82	%	20-120	1	11/06/14 00:00	11/07/14 14:23	646-31-1	
n-Tetracosane (S)	81	%	20-120	1	11/12/14 00:00	11/13/14 21:42	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:22	7440-38-2	
Barium	**0.98J**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:22	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:22	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:22	7440-47-3	
Lead	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:22	7439-92-1	
Selenium	**2.2J**	ug/L	15.0	1	11/08/14 17:15	11/12/14 11:22	7782-49-2	
Silver	**2.4J**	ug/L	7.0	1	11/08/14 17:15	11/12/14 11:22	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 13:49	7440-38-2	
Barium, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 13:49	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 13:49	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 13:49	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 13:49	7439-92-1	
Selenium, Dissolved	**3.4J**	ug/L	15.0	1	11/13/14 14:45	11/14/14 13:49	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 13:49	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 11:32	7439-97-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: FIELD BLANK **Lab ID: 60181930002** Collected: 11/04/14 09:28 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

For the re-extraction of OA2, the method detection limit for TEH as Diesel No.2 is 0.62 mg/L for Field Blank sample.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	**0.062J**	ug/L	0.20	1	11/11/14 12:00	11/12/14 12:01	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	106-46-7	
Diethylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	105-67-9	
Dimethylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	84-74-2	
2,4-Dinitrophenol	ND	ug/L	51.5	1	11/07/14 00:00	11/12/14 23:18	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18		
4-Nitrophenol	ND	ug/L	51.5	1	11/07/14 00:00	11/12/14 23:18	100-02-7	
Phenol	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	108-95-2	
Pyridine	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	110-86-1	
Quinoline	ND	ug/L	10.3	1	11/07/14 00:00	11/12/14 23:18	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	80	%	10-135	1	11/07/14 00:00	11/12/14 23:18	4165-60-0	
2-Fluorobiphenyl (S)	79	%	19-124	1	11/07/14 00:00	11/12/14 23:18	321-60-8	
Terphenyl-d14 (S)	97	%	24-131	1	11/07/14 00:00	11/12/14 23:18	1718-51-0	
Phenol-d6 (S)	29	%	10-120	1	11/07/14 00:00	11/12/14 23:18	13127-88-3	
2-Fluorophenol (S)	44	%	13-120	1	11/07/14 00:00	11/12/14 23:18	367-12-4	
2,4,6-Tribromophenol (S)	84	%	29-121	1	11/07/14 00:00	11/12/14 23:18	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	193-39-5	
1-Methylnaphthalene	**0.083J**	ug/L	0.50	1	11/06/14 00:00	11/07/14 16:50	90-12-0	
2-Methylnaphthalene	**0.17J**	ug/L	0.50	1	11/06/14 00:00	11/07/14 16:50	91-57-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: FIELD BLANK **Lab ID: 60181930002** Collected: 11/04/14 09:28 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

For the re-extraction of OA2, the method detection limit for TEH as Diesel No.2 is 0.62 mg/L for Field Blank sample.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**0.38J**	ug/L	0.50	1	11/06/14 00:00	11/07/14 16:50	91-20-3	
Phenanthrene	**0.099J**	ug/L	0.50	1	11/06/14 00:00	11/07/14 16:50	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 16:50	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	94	%	36-120	1	11/06/14 00:00	11/07/14 16:50	321-60-8	
Terphenyl-d14 (S)	104	%	29-134	1	11/06/14 00:00	11/07/14 16:50	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/06/14 18:37	67-64-1	
Benzene	ND	ug/L	1.0	1		11/06/14 18:37	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/14 18:37	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/14 18:37	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/14 18:37	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/14 18:37	135-98-8	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/06/14 18:37	75-65-0	
Carbon disulfide	ND	ug/L	5.0	1		11/06/14 18:37	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/06/14 18:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/14 18:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/14 18:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/14 18:37	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/14 18:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/14 18:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/06/14 18:37	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/14 18:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/14 18:37	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/06/14 18:37	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/14 18:37	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/14 18:37	78-87-5	
Ethylbenzene	ND	ug/L	1.0	1		11/06/14 18:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/06/14 18:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/14 18:37	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/14 18:37	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/06/14 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/14 18:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 18:37	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/14 18:37	103-65-1	
Styrene	ND	ug/L	1.0	1		11/06/14 18:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/14 18:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/14 18:37	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/14 18:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/14 18:37	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/06/14 18:37	79-01-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: FIELD BLANK **Lab ID: 60181930002** Collected: 11/04/14 09:28 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

For the re-extraction of OA2, the method detection limit for TEH as Diesel No.2 is 0.62 mg/L for Field Blank sample.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/14 18:37	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 18:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 18:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/14 18:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/14 18:37	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/06/14 18:37	123-91-1	
Vinyl acetate	ND	ug/L	10.0	1		11/06/14 18:37	108-05-4	
Acrylonitrile	ND	ug/L	20.0	1		11/06/14 18:37	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/06/14 18:37	110-57-6	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/06/14 18:37	994-05-8	
Diisopropyl ether	ND	ug/L	1.0	1		11/06/14 18:37	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 18:37	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		11/06/14 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120	1		11/06/14 18:37	17060-07-0	
Toluene-d8 (S)	91	%	80-120	1		11/06/14 18:37	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/06/14 18:37		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/10/14 15:00		
Surrogates								
Toluene-d8 (S)	100	%	80-120	1		11/10/14 15:00	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120	1		11/10/14 15:00	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/10/14 15:00	17060-07-0	
Preservation pH	**1.0**		0.10	1		11/10/14 15:00		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.2**	Std. Units	0.10	1		11/06/14 13:15		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: MW-154/GW-01 **Lab ID: 60181930003** Collected: 11/04/14 11:07 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

For the re-extraction of OA2, the method detection limit for TEH as Diesel No.2 is 0.67 mg/L for sample MW-154/GW-01.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:30	68334-30-5	
Diesel Fuel	ND	mg/L	1.3	1	11/12/14 00:00	11/13/14 21:50	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:30	68553-00-4	
Fuel Oil	ND	mg/L	1.3	1	11/12/14 00:00	11/13/14 21:50	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:30	94114-58-6	
Jet Fuel	ND	mg/L	1.3	1	11/12/14 00:00	11/13/14 21:50	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:30	8008-20-6	
Kerosene	ND	mg/L	1.3	1	11/12/14 00:00	11/13/14 21:50	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:30	8030-30-6	
Mineral Spirits	ND	mg/L	1.3	1	11/12/14 00:00	11/13/14 21:50	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:30	64742-65-0	
Motor Oil	ND	mg/L	1.3	1	11/12/14 00:00	11/13/14 21:50	64742-65-0	H2
TEH as Diesel No.2	**0.82**	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:30		1e,B
TEH as Diesel No.2	ND	mg/L	1.3	1	11/12/14 00:00	11/13/14 21:50		H2
Surrogates								
p-Terphenyl (S)	85	%	29-122	1	11/12/14 00:00	11/13/14 21:50	92-94-4	
p-Terphenyl (S)	93	%	29-122	1	11/06/14 00:00	11/07/14 14:30	92-94-4	
n-Tetracosane (S)	84	%	20-120	1	11/06/14 00:00	11/07/14 14:30	646-31-1	
n-Tetracosane (S)	81	%	20-120	1	11/12/14 00:00	11/13/14 21:50	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:25	7440-38-2	
Barium	**841**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:25	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:25	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:25	7440-47-3	
Lead	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:25	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/08/14 17:15	11/12/14 11:25	7782-49-2	
Silver	ND	ug/L	7.0	1	11/08/14 17:15	11/12/14 11:25	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 13:52	7440-38-2	
Barium, Dissolved	**800**	ug/L	10.0	1	11/13/14 14:45	11/14/14 13:52	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 13:52	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 13:52	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 13:52	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 13:52	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 13:52	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 11:38	7439-97-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: MW-154/GW-01 **Lab ID: 60181930003** Collected: 11/04/14 11:07 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

For the re-extraction of OA2, the method detection limit for TEH as Diesel No.2 is 0.67 mg/L for sample MW-154/GW-01.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 12:04	7439-97-6	M1
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	**33.4**	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	106-46-7	
Diethylphthalate	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	105-67-9	
Dimethylphthalate	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	84-74-2	
2,4-Dinitrophenol	ND	ug/L	52.6	1	11/07/14 00:00	11/12/14 23:39	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39		
4-Nitrophenol	ND	ug/L	52.6	1	11/07/14 00:00	11/12/14 23:39	100-02-7	
Phenol	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	108-95-2	
Pyridine	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	110-86-1	
Quinoline	ND	ug/L	10.5	1	11/07/14 00:00	11/12/14 23:39	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	67	%	10-135	1	11/07/14 00:00	11/12/14 23:39	4165-60-0	
2-Fluorobiphenyl (S)	67	%	19-124	1	11/07/14 00:00	11/12/14 23:39	321-60-8	
Terphenyl-d14 (S)	84	%	24-131	1	11/07/14 00:00	11/12/14 23:39	1718-51-0	
Phenol-d6 (S)	29	%	10-120	1	11/07/14 00:00	11/12/14 23:39	13127-88-3	
2-Fluorophenol (S)	41	%	13-120	1	11/07/14 00:00	11/12/14 23:39	367-12-4	
2,4,6-Tribromophenol (S)	78	%	29-121	1	11/07/14 00:00	11/12/14 23:39	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**1.8**	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	83-32-9	
Acenaphthylene	**0.28**	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	208-96-8	
Anthracene	**0.35**	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	206-44-0	
Fluorene	**1.3**	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	193-39-5	
1-Methylnaphthalene	**14.3**	ug/L	0.50	1	11/06/14 00:00	11/07/14 17:11	90-12-0	
2-Methylnaphthalene	**15.5**	ug/L	0.50	1	11/06/14 00:00	11/07/14 17:11	91-57-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: MW-154/GW-01 **Lab ID: 60181930003** Collected: 11/04/14 11:07 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

For the re-extraction of OA2, the method detection limit for TEH as Diesel No.2 is 0.67 mg/L for sample MW-154/GW-01.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**8.4**	ug/L	0.50	1	11/06/14 00:00	11/07/14 17:11	91-20-3	
Phenanthrene	**1.0**	ug/L	0.50	1	11/06/14 00:00	11/07/14 17:11	85-01-8	
Pyrene	**0.32**	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:11	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	87	%	36-120	1	11/06/14 00:00	11/07/14 17:11	321-60-8	
Terphenyl-d14 (S)	95	%	29-134	1	11/06/14 00:00	11/07/14 17:11	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	500	50		11/10/14 15:31	67-64-1	
Benzene	ND	ug/L	50.0	50		11/10/14 15:31	71-43-2	
Bromodichloromethane	ND	ug/L	50.0	50		11/10/14 15:31	75-27-4	
2-Butanone (MEK)	ND	ug/L	500	50		11/10/14 15:31	78-93-3	
n-Butylbenzene	ND	ug/L	50.0	50		11/10/14 15:31	104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	50		11/10/14 15:31	135-98-8	
tert-Butyl Alcohol	ND	ug/L	500	50		11/10/14 15:31	75-65-0	
Carbon disulfide	ND	ug/L	250	50		11/10/14 15:31	75-15-0	
Chlorobenzene	ND	ug/L	50.0	50		11/10/14 15:31	108-90-7	
Chloroethane	ND	ug/L	50.0	50		11/10/14 15:31	75-00-3	
Chloroform	ND	ug/L	50.0	50		11/10/14 15:31	67-66-3	
Chloromethane	ND	ug/L	50.0	50		11/10/14 15:31	74-87-3	
Dibromochloromethane	ND	ug/L	50.0	50		11/10/14 15:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		11/10/14 15:31	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		11/10/14 15:31	74-95-3	
1,1-Dichloroethane	ND	ug/L	50.0	50		11/10/14 15:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		11/10/14 15:31	107-06-2	
1,2-Dichloroethene (Total)	**2310**	ug/L	50.0	50		11/10/14 15:31	540-59-0	
1,1-Dichloroethene	ND	ug/L	50.0	50		11/10/14 15:31	75-35-4	
1,2-Dichloropropane	ND	ug/L	50.0	50		11/10/14 15:31	78-87-5	
Ethylbenzene	**52.8**	ug/L	50.0	50		11/10/14 15:31	100-41-4	
2-Hexanone	ND	ug/L	500	50		11/10/14 15:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	50.0	50		11/10/14 15:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		11/10/14 15:31	99-87-6	
Methylene chloride	ND	ug/L	50.0	50		11/10/14 15:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	50		11/10/14 15:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		11/10/14 15:31	1634-04-4	
n-Propylbenzene	**81.9**	ug/L	50.0	50		11/10/14 15:31	103-65-1	
Styrene	ND	ug/L	50.0	50		11/10/14 15:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		11/10/14 15:31	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	50		11/10/14 15:31	127-18-4	
Toluene	ND	ug/L	50.0	50		11/10/14 15:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		11/10/14 15:31	71-55-6	
Trichloroethene	ND	ug/L	50.0	50		11/10/14 15:31	79-01-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: MW-154/GW-01 **Lab ID: 60181930003** Collected: 11/04/14 11:07 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

For the re-extraction of OA2, the method detection limit for TEH as Diesel No.2 is 0.67 mg/L for sample MW-154/GW-01.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	50.0	50		11/10/14 15:31	75-69-4	
1,2,4-Trimethylbenzene	**142**	ug/L	50.0	50		11/10/14 15:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	50		11/10/14 15:31	108-67-8	
Vinyl chloride	**1330**	ug/L	50.0	50		11/10/14 15:31	75-01-4	
Xylene (Total)	ND	ug/L	150	50		11/10/14 15:31	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	5000	50		11/10/14 15:31	123-91-1	
Vinyl acetate	ND	ug/L	500	50		11/10/14 15:31	108-05-4	
Acrylonitrile	ND	ug/L	1000	50		11/10/14 15:31	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	250	50		11/10/14 15:31	110-57-6	
tert-Amylmethyl ether	ND	ug/L	50.0	50		11/10/14 15:31	994-05-8	
Diisopropyl ether	ND	ug/L	50.0	50		11/10/14 15:31	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	50.0	50		11/10/14 15:31	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	50		11/10/14 15:31	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	50		11/10/14 15:31	17060-07-0	
Toluene-d8 (S)	99	%	80-120	50		11/10/14 15:31	2037-26-5	
Preservation pH	**1.0**		0.10	50		11/10/14 15:31		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	25.0	50		11/10/14 15:31		
Surrogates								
Toluene-d8 (S)	99	%	80-120	50		11/10/14 15:31	2037-26-5	
4-Bromofluorobenzene (S)	99	%	80-120	50		11/10/14 15:31	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	50		11/10/14 15:31	17060-07-0	
Preservation pH	**1.0**		0.10	50		11/10/14 15:31		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		11/06/14 13:15		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: TB-02 **Lab ID: 60181930004** Collected: 11/04/14 08:33 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/06/14 18:23	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/06/14 18:23	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/06/14 18:23	994-05-8	
Benzene	ND	ug/L	1.0	1		11/06/14 18:23	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/14 18:23	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/14 18:23	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/06/14 18:23	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/14 18:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/14 18:23	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/06/14 18:23	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/06/14 18:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/14 18:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/14 18:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/14 18:23	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/14 18:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/14 18:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/06/14 18:23	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/06/14 18:23	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/14 18:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/14 18:23	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/06/14 18:23	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/14 18:23	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/14 18:23	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/06/14 18:23	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/06/14 18:23	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/06/14 18:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 18:23	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/06/14 18:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/14 18:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/14 18:23	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/06/14 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/14 18:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 18:23	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/14 18:23	103-65-1	
Styrene	ND	ug/L	1.0	1		11/06/14 18:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/14 18:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/14 18:23	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/14 18:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/14 18:23	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/06/14 18:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/14 18:23	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 18:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 18:23	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/06/14 18:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/06/14 18:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/14 18:23	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181930

Sample: TB-02 **Lab ID: 60181930004** Collected: 11/04/14 08:33 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		11/06/14 18:23	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120	1		11/06/14 18:23	17060-07-0	
Toluene-d8 (S)	91	%	80-120	1		11/06/14 18:23	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/06/14 18:23		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/07/14 05:10		
Surrogates								
Toluene-d8 (S)	101	%	80-120	1		11/07/14 05:10	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	1		11/07/14 05:10	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		11/07/14 05:10	17060-07-0	
Preservation pH	**1.0**		0.10	1		11/07/14 05:10		

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: MERP/9026 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 60181930001, 60181930002, 60181930003

METHOD BLANK: 1475826 Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/10/14 11:25	

LABORATORY CONTROL SAMPLE: 1475827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1475828 1475829

Parameter	Units	60181930002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	5.2	100	104	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: MERP/9033 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 60181930001, 60181930002, 60181930003

METHOD BLANK: 1476532 Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	11/12/14 11:50	

LABORATORY CONTROL SAMPLE: 1476533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1476534 1476535

Parameter	Units	60181930003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	2.5	2.5	49	50	75-125	2	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: MPRP/29708 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET
Associated Lab Samples: 60181930001, 60181930002, 60181930003

METHOD BLANK: 1475990 — Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	11/12/14 11:11	
Barium	ug/L	ND	10.0	11/12/14 11:11	
Cadmium	ug/L	ND	5.0	11/12/14 11:11	
Chromium	ug/L	ND	5.0	11/12/14 11:11	
Lead	ug/L	ND	5.0	11/12/14 11:11	
Selenium	ug/L	ND	15.0	11/12/14 11:11	
Silver	ug/L	ND	7.0	11/12/14 11:11	

LABORATORY CONTROL SAMPLE: 1475991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	1050	105	91-106	
Barium	ug/L	1000	1060	106	90-111	
Cadmium	ug/L	1000	1040	104	92-109	
Chromium	ug/L	1000	999	100	89-109	
Lead	ug/L	1000	1040	104	91-110	
Selenium	ug/L	1000	1050	105	91-107	
Silver	ug/L	500	502	100	88-108	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1475992 1475993

Parameter	Units	60181930001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	33.1	1000	1000	1090	1100	105	107	75-125	1	20	
Barium	ug/L	500	1000	1000	1550	1580	105	108	75-125	2	20	
Cadmium	ug/L	ND	1000	1000	1040	1040	104	104	75-125	0	20	
Chromium	ug/L	ND	1000	1000	949	962	95	96	75-125	1	20	
Lead	ug/L	ND	1000	1000	1000	1010	100	101	75-125	1	20	
Selenium	ug/L	ND	1000	1000	1030	1040	103	104	75-125	0	20	
Silver	ug/L	ND	500	500	491	495	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: MPRP/29780 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60181930001, 60181930002, 60181930003

METHOD BLANK: 1478079 — Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	10.0	11/14/14 13:28	
Barium, Dissolved	ug/L	ND	10.0	11/14/14 13:28	
Cadmium, Dissolved	ug/L	ND	1.0	11/14/14 13:28	
Chromium, Dissolved	ug/L	ND	5.0	11/14/14 13:28	
Lead, Dissolved	ug/L	ND	5.0	11/14/14 13:28	
Selenium, Dissolved	ug/L	ND	15.0	11/14/14 13:28	
Silver, Dissolved	ug/L	ND	7.0	11/14/14 13:28	

LABORATORY CONTROL SAMPLE: 1478080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	960	96	80-120	
Barium, Dissolved	ug/L	1000	1000	100	80-120	
Cadmium, Dissolved	ug/L	1000	970	97	80-120	
Chromium, Dissolved	ug/L	1000	1010	101	80-120	
Lead, Dissolved	ug/L	1000	972	97	80-120	
Selenium, Dissolved	ug/L	1000	970	97	80-120	
Silver, Dissolved	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1478081 1478082

Parameter	Units	60181930001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	32.4	1000	1000	1010	1000	98	97	75-125	1	20	
Barium, Dissolved	ug/L	551	1000	1000	1560	1550	101	100	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	973	966	97	97	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	1000	993	100	99	75-125	1	20	
Lead, Dissolved	ug/L	ND	1000	1000	952	944	95	94	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	976	974	97	97	75-125	0	20	
Silver, Dissolved	ug/L	ND	500	500	497	493	99	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: MSV/65590 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60181930001, 60181930002, 60181930004

METHOD BLANK: 1474143 Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,1-Dichloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,1-Dichloroethene	ug/L	ND	1.0	11/06/14 17:39	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dichloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dichloropropane	ug/L	ND	1.0	11/06/14 17:39	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/06/14 17:39	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/06/14 17:39	
2-Butanone (MEK)	ug/L	ND	10.0	11/06/14 17:39	
2-Hexanone	ug/L	ND	10.0	11/06/14 17:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/06/14 17:39	
Acetone	ug/L	ND	10.0	11/06/14 17:39	
Acrylonitrile	ug/L	ND	20.0	11/06/14 17:39	
Benzene	ug/L	ND	1.0	11/06/14 17:39	
Bromodichloromethane	ug/L	ND	1.0	11/06/14 17:39	
Carbon disulfide	ug/L	ND	5.0	11/06/14 17:39	
Chlorobenzene	ug/L	ND	1.0	11/06/14 17:39	
Chloroethane	ug/L	ND	1.0	11/06/14 17:39	
Chloroform	ug/L	ND	1.0	11/06/14 17:39	
Chloromethane	ug/L	ND	1.0	11/06/14 17:39	
Dibromochloromethane	ug/L	ND	1.0	11/06/14 17:39	
Dibromomethane	ug/L	ND	1.0	11/06/14 17:39	
Diisopropyl ether	ug/L	ND	1.0	11/06/14 17:39	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/06/14 17:39	
Ethylbenzene	ug/L	ND	1.0	11/06/14 17:39	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/06/14 17:39	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/06/14 17:39	
Methylene chloride	ug/L	ND	1.0	11/06/14 17:39	
n-Butylbenzene	ug/L	ND	1.0	11/06/14 17:39	
n-Propylbenzene	ug/L	ND	1.0	11/06/14 17:39	
p-Isopropyltoluene	ug/L	ND	1.0	11/06/14 17:39	
sec-Butylbenzene	ug/L	ND	1.0	11/06/14 17:39	
Styrene	ug/L	ND	1.0	11/06/14 17:39	
tert-Amylmethyl ether	ug/L	ND	1.0	11/06/14 17:39	
tert-Butyl Alcohol	ug/L	ND	10.0	11/06/14 17:39	
Tetrachloroethene	ug/L	ND	1.0	11/06/14 17:39	
Toluene	ug/L	ND	1.0	11/06/14 17:39	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/06/14 17:39	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

METHOD BLANK: 1474143 Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	11/06/14 17:39	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/14 17:39	
Vinyl acetate	ug/L	ND	10.0	11/06/14 17:39	
Vinyl chloride	ug/L	ND	1.0	11/06/14 17:39	
Xylene (Total)	ug/L	ND	3.0	11/06/14 17:39	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/06/14 17:39	
4-Bromofluorobenzene (S)	%	103	80-120	11/06/14 17:39	
Toluene-d8 (S)	%	87	80-120	11/06/14 17:39	

LABORATORY CONTROL SAMPLE: 1474144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.2	111	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	17.0	85	73-124	
1,1-Dichloroethane	ug/L	20	22.5	113	77-120	
1,1-Dichloroethene	ug/L	20	23.1	115	78-126	
1,2,4-Trimethylbenzene	ug/L	20	18.4	92	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	20.0	100	80-127	
1,2-Dichloroethane	ug/L	20	21.0	105	77-123	
1,2-Dichloroethene (Total)	ug/L	40	43.8	110	80-120	
1,2-Dichloropropane	ug/L	20	21.5	107	80-121	
1,3,5-Trimethylbenzene	ug/L	20	18.6	93	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	78.3J	78	44-160	
2-Butanone (MEK)	ug/L	100	105	105	52-145	
2-Hexanone	ug/L	100	87.3	87	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	71-131	
Acetone	ug/L	100	102	102	32-155	
Acrylonitrile	ug/L	200	219	110	75-125	
Benzene	ug/L	20	23.0	115	80-120	
Bromodichloromethane	ug/L	20	22.8	114	80-120	
Carbon disulfide	ug/L	20	24.1	120	65-125	
Chlorobenzene	ug/L	20	21.2	106	80-120	
Chloroethane	ug/L	20	20.8	104	55-137	
Chloroform	ug/L	20	21.8	109	79-120	
Chloromethane	ug/L	20	20.6	103	22-138	
Dibromochloromethane	ug/L	20	19.1	96	80-120	
Dibromomethane	ug/L	20	21.2	106	80-122	
Diisopropyl ether	ug/L	20	21.7	109	70-123	
Ethyl-tert-butyl ether	ug/L	20	21.7	109	73-120	
Ethylbenzene	ug/L	20	19.6	98	80-121	
Isopropylbenzene (Cumene)	ug/L	20	20.8	104	80-136	
Methyl-tert-butyl ether	ug/L	20	21.7	108	74-125	
Methylene chloride	ug/L	20	22.8	114	73-126	
n-Butylbenzene	ug/L	20	17.3	87	83-123	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

LABORATORY CONTROL SAMPLE: 1474144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	20	18.0	90	80-122	
p-Isopropyltoluene	ug/L	20	17.6	88	80-124	
sec-Butylbenzene	ug/L	20	17.7	88	80-129	
Styrene	ug/L	20	20.7	103	80-120	
tert-Amylmethyl ether	ug/L	20	21.7	108	74-120	
tert-Butyl Alcohol	ug/L	100	95.0	95	50-139	
Tetrachloroethene	ug/L	20	19.9	99	80-121	
Toluene	ug/L	20	20.2	101	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	16.6	83	59-133	
Trichloroethene	ug/L	20	22.6	113	80-120	
Trichlorofluoromethane	ug/L	20	23.3	116	67-120	
Vinyl acetate	ug/L	20	20.8	104	45-160	
Vinyl chloride	ug/L	20	23.5	117	59-120	
Xylene (Total)	ug/L	60	61.3	102	80-121	
1,2-Dichloroethane-d4 (S)	%			93	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			91	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: MSV/65646 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60181930001, 60181930002, 60181930003

METHOD BLANK: 1476174 Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	11/10/14 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	11/10/14 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/10/14 12:11	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/10/14 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	11/10/14 12:11	
2-Hexanone	ug/L	ND	10.0	11/10/14 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/10/14 12:11	
Acetone	ug/L	ND	10.0	11/10/14 12:11	
Acrylonitrile	ug/L	ND	20.0	11/10/14 12:11	
Benzene	ug/L	ND	1.0	11/10/14 12:11	
Bromodichloromethane	ug/L	ND	1.0	11/10/14 12:11	
Carbon disulfide	ug/L	ND	5.0	11/10/14 12:11	
Chlorobenzene	ug/L	ND	1.0	11/10/14 12:11	
Chloroethane	ug/L	ND	1.0	11/10/14 12:11	
Chloroform	ug/L	ND	1.0	11/10/14 12:11	
Chloromethane	ug/L	ND	1.0	11/10/14 12:11	
Dibromochloromethane	ug/L	ND	1.0	11/10/14 12:11	
Dibromomethane	ug/L	ND	1.0	11/10/14 12:11	
Diisopropyl ether	ug/L	ND	1.0	11/10/14 12:11	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/10/14 12:11	
Ethylbenzene	ug/L	ND	1.0	11/10/14 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/10/14 12:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/10/14 12:11	
Methylene chloride	ug/L	ND	1.0	11/10/14 12:11	
n-Butylbenzene	ug/L	ND	1.0	11/10/14 12:11	
n-Propylbenzene	ug/L	ND	1.0	11/10/14 12:11	
p-Isopropyltoluene	ug/L	ND	1.0	11/10/14 12:11	
sec-Butylbenzene	ug/L	ND	1.0	11/10/14 12:11	
Styrene	ug/L	ND	1.0	11/10/14 12:11	
tert-Amylmethyl ether	ug/L	ND	1.0	11/10/14 12:11	
tert-Butyl Alcohol	ug/L	ND	10.0	11/10/14 12:11	
Tetrachloroethene	ug/L	ND	1.0	11/10/14 12:11	
Toluene	ug/L	ND	1.0	11/10/14 12:11	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/10/14 12:11	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

METHOD BLANK: 1476174 Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	11/10/14 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/10/14 12:11	
Vinyl acetate	ug/L	ND	10.0	11/10/14 12:11	
Vinyl chloride	ug/L	ND	1.0	11/10/14 12:11	
Xylene (Total)	ug/L	ND	3.0	11/10/14 12:11	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/10/14 12:11	
4-Bromofluorobenzene (S)	%	101	80-120	11/10/14 12:11	
Toluene-d8 (S)	%	99	80-120	11/10/14 12:11	

LABORATORY CONTROL SAMPLE: 1476175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	73-124	
1,1-Dichloroethane	ug/L	20	18.6	93	77-120	
1,1-Dichloroethene	ug/L	20	18.3	92	78-126	
1,2,4-Trimethylbenzene	ug/L	20	20.0	100	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	21.1	106	80-127	
1,2-Dichloroethane	ug/L	20	19.4	97	77-123	
1,2-Dichloroethene (Total)	ug/L	40	38.0	95	80-120	
1,2-Dichloropropane	ug/L	20	19.0	95	80-121	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	104	104	44-160	
2-Butanone (MEK)	ug/L	100	92.8	93	52-145	
2-Hexanone	ug/L	100	101	101	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.5	98	71-131	
Acetone	ug/L	100	96.4	96	32-155	
Acrylonitrile	ug/L	200	204	102	75-125	
Benzene	ug/L	20	18.8	94	80-120	
Bromodichloromethane	ug/L	20	19.8	99	80-120	
Carbon disulfide	ug/L	20	20.7	104	65-125	
Chlorobenzene	ug/L	20	19.7	98	80-120	
Chloroethane	ug/L	20	17.5	88	55-137	
Chloroform	ug/L	20	19.4	97	79-120	
Chloromethane	ug/L	20	18.4	92	22-138	
Dibromochloromethane	ug/L	20	19.9	99	80-120	
Dibromomethane	ug/L	20	20.6	103	80-122	
Diisopropyl ether	ug/L	20	19.3	97	70-123	
Ethyl-tert-butyl ether	ug/L	20	19.4	97	73-120	
Ethylbenzene	ug/L	20	19.7	98	80-121	
Isopropylbenzene (Cumene)	ug/L	20	19.8	99	80-136	
Methyl-tert-butyl ether	ug/L	20	19.4	97	74-125	
Methylene chloride	ug/L	20	19.3	97	73-126	
n-Butylbenzene	ug/L	20	20.2	101	83-123	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

LABORATORY CONTROL SAMPLE: 1476175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	20	19.3	97	80-122	
p-Isopropyltoluene	ug/L	20	19.8	99	80-124	
sec-Butylbenzene	ug/L	20	19.5	97	80-129	
Styrene	ug/L	20	21.0	105	80-120	
tert-Amylmethyl ether	ug/L	20	20.1	100	74-120	
tert-Butyl Alcohol	ug/L	100	98.2	98	50-139	
Tetrachloroethene	ug/L	20	19.1	96	80-121	
Toluene	ug/L	20	19.2	96	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	21.3	107	59-133	
Trichloroethene	ug/L	20	18.9	95	80-120	
Trichlorofluoromethane	ug/L	20	19.5	98	67-120	
Vinyl acetate	ug/L	20	18.2	91	45-160	
Vinyl chloride	ug/L	20	19.8	99	59-120	
Xylene (Total)	ug/L	60	59.8	100	80-121	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: MSV/65594
QC Batch Method: EPA 8260/OA1
Analysis Method: EPA 8260/OA1
Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60181930004

METHOD BLANK: 1474180
Matrix: Water
Associated Lab Samples: 60181930004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/07/14 01:23	
1,2-Dichloroethane-d4 (S)	%	103	80-120	11/07/14 01:23	
4-Bromofluorobenzene (S)	%	99	80-120	11/07/14 01:23	
Toluene-d8 (S)	%	100	80-120	11/07/14 01:23	

LABORATORY CONTROL SAMPLE: 1474181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.8	94	62-121	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: MSV/65670 Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60181930001, 60181930002, 60181930003

METHOD BLANK: 1476379 Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/10/14 12:11	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/10/14 12:11	
4-Bromofluorobenzene (S)	%	101	80-120	11/10/14 12:11	
Toluene-d8 (S)	%	99	80-120	11/10/14 12:11	

LABORATORY CONTROL SAMPLE: 1476380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.6	90	62-121	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: OEXT/47017 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 60181930001, 60181930002, 60181930003

METHOD BLANK: 1474783 | Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichlorobenzene	ug/L	ND	10.0	11/09/14 11:55	
1,3-Dichlorobenzene	ug/L	ND	10.0	11/09/14 11:55	
1,4-Dichlorobenzene	ug/L	ND	10.0	11/09/14 11:55	
2,4-Dimethylphenol	ug/L	ND	10.0	11/09/14 11:55	
2,4-Dinitrophenol	ug/L	ND	50.0	11/09/14 11:55	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	11/09/14 11:55	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/09/14 11:55	
4-Nitrophenol	ug/L	ND	50.0	11/09/14 11:55	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	11/09/14 11:55	
Di-n-butylphthalate	ug/L	ND	10.0	11/09/14 11:55	
Diethylphthalate	ug/L	ND	10.0	11/09/14 11:55	
Dimethylphthalate	ug/L	ND	10.0	11/09/14 11:55	
Phenol	ug/L	ND	10.0	11/09/14 11:55	
Pyridine	ug/L	ND	10.0	11/09/14 11:55	
Quinoline	ug/L	ND	10.0	11/09/14 11:55	
2,4,6-Tribromophenol (S)	%	103	29-121	11/09/14 11:55	
2-Fluorobiphenyl (S)	%	89	19-124	11/09/14 11:55	
2-Fluorophenol (S)	%	51	13-120	11/09/14 11:55	
Nitrobenzene-d5 (S)	%	92	10-135	11/09/14 11:55	
Phenol-d6 (S)	%	36	10-120	11/09/14 11:55	
Terphenyl-d14 (S)	%	92	24-131	11/09/14 11:55	

LABORATORY CONTROL SAMPLE: 1474784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	42.6	85	45-120	
1,3-Dichlorobenzene	ug/L	50	41.5	83	44-120	
1,4-Dichlorobenzene	ug/L	50	41.3	83	44-120	
2,4-Dimethylphenol	ug/L	50	45.1	90	35-120	
2,4-Dinitrophenol	ug/L	50	55.3	111	21-120	
2-Methylphenol(o-Cresol)	ug/L	50	43.6	87	40-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	42.1	84	34-120	
4-Nitrophenol	ug/L	50	28.4J	57	10-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	45.2	90	52-123	
Di-n-butylphthalate	ug/L	50	46.2	92	49-125	
Diethylphthalate	ug/L	50	45.7	91	53-120	
Dimethylphthalate	ug/L	50	44.3	89	52-120	
Phenol	ug/L	50	25.3	51	12-120	
Pyridine	ug/L	50	25.8	52	10-120	
Quinoline	ug/L	50	40.7	81	37-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

LABORATORY CONTROL SAMPLE: 1474784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%			102	29-121	
2-Fluorobiphenyl (S)	%			87	19-124	
2-Fluorophenol (S)	%			58	13-120	
Nitrobenzene-d5 (S)	%			90	10-135	
Phenol-d6 (S)	%			45	10-120	
Terphenyl-d14 (S)	%			94	24-131	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: OEXT/47004 | Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C | Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60181930001, 60181930002, 60181930003

METHOD BLANK: 1473883 | Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.50	11/07/14 15:06	
2-Methylnaphthalene	ug/L	ND	0.50	11/07/14 15:06	
Acenaphthene	ug/L	ND	0.10	11/07/14 15:06	
Acenaphthylene	ug/L	ND	0.10	11/07/14 15:06	
Anthracene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(a)anthracene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(a)pyrene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/07/14 15:06	
Chrysene	ug/L	ND	0.10	11/07/14 15:06	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/07/14 15:06	
Fluoranthene	ug/L	ND	0.10	11/07/14 15:06	
Fluorene	ug/L	ND	0.10	11/07/14 15:06	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/07/14 15:06	
Naphthalene	ug/L	ND	0.50	11/07/14 15:06	
Phenanthrene	ug/L	ND	0.50	11/07/14 15:06	
Pyrene	ug/L	ND	0.10	11/07/14 15:06	
2-Fluorobiphenyl (S)	%	84	36-120	11/07/14 15:06	
Terphenyl-d14 (S)	%	94	29-134	11/07/14 15:06	

LABORATORY CONTROL SAMPLE: 1473884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	9.3	93	59-120	
2-Methylnaphthalene	ug/L	10	9.4	94	52-120	
Acenaphthene	ug/L	10	9.2	92	45-120	
Acenaphthylene	ug/L	10	9.5	95	42-120	
Anthracene	ug/L	10	9.4	94	39-120	
Benzo(a)anthracene	ug/L	10	9.8	98	40-125	
Benzo(a)pyrene	ug/L	10	9.8	98	39-122	
Benzo(b)fluoranthene	ug/L	10	9.5	95	33-134	
Benzo(g,h,i)perylene	ug/L	10	8.8	88	27-126	
Benzo(k)fluoranthene	ug/L	10	9.9	99	43-123	
Chrysene	ug/L	10	8.8	88	44-120	
Dibenz(a,h)anthracene	ug/L	10	9.3	93	21-129	
Fluoranthene	ug/L	10	9.5	95	45-126	
Fluorene	ug/L	10	9.6	96	44-120	
Indeno(1,2,3-cd)pyrene	ug/L	10	9.2	92	25-127	
Naphthalene	ug/L	10	9.2	92	44-120	

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REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

LABORATORY CONTROL SAMPLE: 1473884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	9.2	92	43-120	
Pyrene	ug/L	10	9.1	91	39-120	
2-Fluorobiphenyl (S)	%			89	36-120	
Terphenyl-d14 (S)	%			87	29-134	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: OEXT/47005 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60181930001, 60181930002, 60181930003

METHOD BLANK: 1473887 Matrix: Water
Associated Lab Samples: 60181930001, 60181930002, 60181930003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	11/07/14 13:16	
Fuel Oil	mg/L	ND	0.40	11/07/14 13:16	
Jet Fuel	mg/L	ND	0.40	11/07/14 13:16	
Kerosene	mg/L	ND	0.40	11/07/14 13:16	
Mineral Spirits	mg/L	ND	0.40	11/07/14 13:16	
Motor Oil	mg/L	ND	0.40	11/07/14 13:16	
TEH as Diesel No.2	mg/L	0.42	0.40	11/07/14 13:16	
n-Tetracosane (S)	%	76	20-120	11/07/14 13:16	
p-Terphenyl (S)	%	73	29-122	11/07/14 13:16	

LABORATORY CONTROL SAMPLE: 1473888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	9.1	73	60-122	
n-Tetracosane (S)	%			61	20-120	
p-Terphenyl (S)	%			85	29-122	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: OEXT/47087 | Analysis Method: OA2
QC Batch Method: OA2 | Analysis Description: OA2 GCS
Associated Lab Samples: 60181930002, 60181930003

METHOD BLANK: 1477452 | Matrix: Water
Associated Lab Samples: 60181930002, 60181930003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	11/13/14 21:19	
Fuel Oil	mg/L	ND	0.40	11/13/14 21:19	
Jet Fuel	mg/L	ND	0.40	11/13/14 21:19	
Kerosene	mg/L	ND	0.40	11/13/14 21:19	
Mineral Spirits	mg/L	ND	0.40	11/13/14 21:19	
Motor Oil	mg/L	ND	0.40	11/13/14 21:19	
TEH as Diesel No.2	mg/L	ND	0.40	11/13/14 21:19	
n-Tetracosane (S)	%	77	20-120	11/13/14 21:19	
p-Terphenyl (S)	%	80	29-122	11/13/14 21:19	

LABORATORY CONTROL SAMPLE: 1477453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	9.1	72	60-122	
n-Tetracosane (S)	%			66	20-120	
p-Terphenyl (S)	%			82	29-122	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181930

QC Batch: WET/51392 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60181930001, 60181930002, 60181930003

SAMPLE DUPLICATE: 1474065

Parameter	Units	60181930001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	5	H6

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QUALIFIERS

Project: KDHE NEODESHA
Pace Project No.: 60181930

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/47004

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47005

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65590

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65594

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65646

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65670

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47087

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to late motor oil range. Quantitation achieved using diesel fuel as a reference standard.
B	Analyte was detected in the associated method blank.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H2	Extraction or preparation conducted outside EPA method holding time.

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QUALIFIERS

Project: KDHE NEODESHA
Pace Project No.: 60181930

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60181930

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60181930001	**MW-152**	OA2	OEXT/47005	OA2	GCSV/17922
60181930002	**FIELD BLANK**	OA2	OEXT/47005	OA2	GCSV/17922
60181930002	**FIELD BLANK**	OA2	OEXT/47087	OA2	GCSV/17954
60181930003	**MW-154/GW-01**	OA2	OEXT/47005	OA2	GCSV/17922
60181930003	**MW-154/GW-01**	OA2	OEXT/47087	OA2	GCSV/17954
60181930001	**MW-152**	EPA 3010	MPRP/29708	EPA 6010	ICP/22268
60181930002	**FIELD BLANK**	EPA 3010	MPRP/29708	EPA 6010	ICP/22268
60181930003	**MW-154/GW-01**	EPA 3010	MPRP/29708	EPA 6010	ICP/22268
60181930001	**MW-152**	EPA 3010	MPRP/29780	EPA 6010	ICP/22310
60181930002	**FIELD BLANK**	EPA 3010	MPRP/29780	EPA 6010	ICP/22310
60181930003	**MW-154/GW-01**	EPA 3010	MPRP/29780	EPA 6010	ICP/22310
60181930001	**MW-152**	EPA 7470	MERP/9026	EPA 7470	MERC/8980
60181930002	**FIELD BLANK**	EPA 7470	MERP/9026	EPA 7470	MERC/8980
60181930003	**MW-154/GW-01**	EPA 7470	MERP/9026	EPA 7470	MERC/8980
60181930001	**MW-152**	EPA 7470	MERP/9033	EPA 7470	MERC/8989
60181930002	**FIELD BLANK**	EPA 7470	MERP/9033	EPA 7470	MERC/8989
60181930003	**MW-154/GW-01**	EPA 7470	MERP/9033	EPA 7470	MERC/8989
60181930001	**MW-152**	EPA 3510	OEXT/47017	EPA 8270	MSSV/15141
60181930002	**FIELD BLANK**	EPA 3510	OEXT/47017	EPA 8270	MSSV/15141
60181930003	**MW-154/GW-01**	EPA 3510	OEXT/47017	EPA 8270	MSSV/15141
60181930001	**MW-152**	EPA 3510C	OEXT/47004	EPA 8270C by SIM	MSSV/15137
60181930002	**FIELD BLANK**	EPA 3510C	OEXT/47004	EPA 8270C by SIM	MSSV/15137
60181930003	**MW-154/GW-01**	EPA 3510C	OEXT/47004	EPA 8270C by SIM	MSSV/15137
60181930001	**MW-152**	EPA 5030B/8260	MSV/65590		
60181930001	**MW-152**	EPA 5030B/8260	MSV/65646		
60181930002	**FIELD BLANK**	EPA 5030B/8260	MSV/65590		
60181930002	**FIELD BLANK**	EPA 5030B/8260	MSV/65646		
60181930003	**MW-154/GW-01**	EPA 5030B/8260	MSV/65646		
60181930004	**TB-02**	EPA 5030B/8260	MSV/65590		
60181930001	**MW-152**	EPA 8260/OA1	MSV/65670		
60181930002	**FIELD BLANK**	EPA 8260/OA1	MSV/65670		
60181930003	**MW-154/GW-01**	EPA 8260/OA1	MSV/65670		
60181930004	**TB-02**	EPA 8260/OA1	MSV/65594		
60181930001	**MW-152**	SM 4500-H+B	WET/51392		
60181930002	**FIELD BLANK**	SM 4500-H+B	WET/51392		
60181930003	**MW-154/GW-01**	SM 4500-H+B	WET/51392		

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Sample Condition Upon Receipt

WO#: 60181930
60181930

Optional
Proj Due Date:
Proj Name:

Client Name: Burns + McDonnell

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8992 9890 7030 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JD 11/5

Chain of Custody present:	☒Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☒Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☒Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☒Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time requested:	☐Yes	☒No	☐N/A	7.
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	
Pace containers used:	☒Yes	☐No	☐N/A	9.
Containers intact:	☒Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes	☐No	☐N/A	13.
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	For each sample, added 1ml HNO_3 to one 40mL. initial pH ~6.0, final pH ~1.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes	☐No	☐N/A	14.
Exceptions: VOA coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes	☐No		Initial when completed: JW Lot # of added preservative: 12513-37-10
Trip Blank present: Pace Trip Blank lot # (if purchased): Covered	☒Yes	☐No	☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes	☒No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒N/A	17. List State: KS

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: TREVOR Date/Time: 11/10

Comments/ Resolution: pH + TOTAL RUSH B REQUIRED; Notified TREVOR NOT enough volume received for MSMSD on MW-152.

Project Manager Review: Date: 11/6

Burns & McDonnell
SINCE 1898
021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LORET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No:
Lab. Reference No. or Episode No.:

Project Number: 80435
Client Name: KDHE NEODESHA

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Sample Type: Matrix: Liquid	Matrix: Solid	Matrix: Gas	Number of Containers	Analysis: VOC 8260 (GRO DAL)	Analysis: SVOC 8270	Analysis: RCRA 8 - FILTERED	Analysis: PAH 8270 SIM	Analysis: OA2	Analysis: pH, TDML DORAF	Remarks
MW-152	MS/MSD	(2) AG4U (4) AG4U	DP3F 2.0	(3) AG4U			11/4/14	0833	X			10	X	X	X	X	X		FIELD FILTERED 03
FIELD BLANK-02							11/4/14	0928	X			10	X	X	X	X	X		FIELD FILTERED 02
MW-154	GW-01						11/4/14	1107	X			10	X	X	X	X	X		FIELD FILTERED 01
TB-02		(2) DG4H					11/4/14	—	X			2	X						03

Ca18K30

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. — Date/Time 11/4/14 1530

Received By (signature): — Date/Time 11/5 0815

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 2.2°C

Relinquished By (signature): 2. — Date/Time

Received By (signature): — Date/Time

Laboratory Comments:

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_05-NOV-2014 08:15 Client SDG: 6018193
Lab Smp Id: 60181930001X50 Client Smp ID: MW-152
Operator : PRG Sample Date: 04-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:05-NOV-2014 08:15
Analysis Type: VOA Level: LOW
Inj Date: 06-NOV-2014 20:35

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 78-78-4	Butane, 2-methyl-	1.214	2500	NJ
2. 109-66-0	Pentane	1.329	1800	NJ
3. 96-37-7	Cyclopentane, methyl-	2.542	1500	NJ
4. 620-14-4	Benzene, 1-ethyl-3-methyl-	6.374	16000	NJ
5. 622-96-8	Benzene, 1-ethyl-4-methyl-	6.570	4800	NJ
6. 873-66-5	Benzene, 1-propenyl-, (E)-	7.107	3600	NJ
7. 933-98-2	Benzene, 1-ethyl-2,3-dimeth	7.352	890	NJ
8. 527-84-4	Benzene, 1-methyl-2-(1-meth	7.422	1400	NJ
9. 25155-15-1	Benzene, methyl(1-methyleth	7.696	950	NJ
10. 1587-04-8	Benzene, 1-methyl-2-(2-prop	8.024	970	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_05-NOV-2014 08:15 Client SDG: 6018193
Lab Smp Id: 60181930002 Client Smp ID: FIELD BLANK
Operator : PRG Sample Date: 04-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:05-NOV-2014 08:15
Analysis Type: VOA Level: LOW
Inj Date: 06-NOV-2014 18:37

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_05-NOV-2014 08:15 Client SDG: 6018193
Lab Smp Id: 60181930003 Client Smp ID: MW-154/GW-01
Operator : PRG Sample Date: 04-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:05-NOV-2014 08:15
Analysis Type: VOA Level: LOW
Inj Date: 10-NOV-2014 15:31

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 78-78-4	Butane, 2-methyl-	1.237	150	NJ
2. 79-29-8	Butane, 2,3-dimethyl-	1.796	200	NJ
3. 763-29-1	1-Pentene, 2-methyl-	2.517	85	NJ
4. 589-34-4	Hexane, 3-methyl-	3.026	110	NJ
5. 822-50-4	Cyclopentane, 1,2-dimethyl-	3.209	130	NJ
6. 565-75-3	Pentane, 2,3,4-trimethyl-	3.960	91	NJ
7. 921-47-1	Hexane, 2,3,4-trimethyl-	4.036	130	NJ
8. 622-96-8	Benzene, 1-ethyl-4-methyl-	6.568	75	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_05-NOV-2014 08:15 Client SDG: 6018193
Lab Smp Id: 60181930004 Client Smp ID: TB-02
Operator : PRG Sample Date: 04-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:05-NOV-2014 08:15
Analysis Type: VOA Level: LOW
Inj Date: 06-NOV-2014 18:23

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1474143
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 06-NOV-2014 17:39

Client SDG: 60MSV8-110614a
Client Smp ID: MB
Sample Date:
Sample Point:
Date Received:06-NOV-2014 11:53
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1476379
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-NOV-2014 12:11

Client SDG: 111014a.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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February 18, 2015

Trevor Gustafson
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

RE: Project: KDHE NEODESHA
Pace Project No.: 60181971

Dear Trevor Gustafson:
Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: TREVOR GUSTAFSON, BURNS & MCDONNELL

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CERTIFICATIONS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: KDHE NEODESHA
Pace Project No.: 60181971

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60181971001	**MW-171/GW-01**	Water	11/03/14 16:05	11/05/14 08:15
60181971002	**FIELD BLANK-01**	Water	11/03/14 16:17	11/05/14 08:15
60181971003	**TB-01**	Water	11/03/14 16:05	11/05/14 08:15
60181971004	**MW-152/GW-01**	Water	11/04/14 08:33	11/05/14 08:15

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60181971

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60181971001	**MW-171/GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	50
		EPA 8260/OA1	PRG	5
		SM 4500-H+B	JML	1
60181971002	**FIELD BLANK-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	50
		EPA 8260/OA1	EAK	5
		SM 4500-H+B	JML	1
60181971003	**TB-01**	EPA 5030B/8260	EAK, PRG	50
		EPA 8260/OA1	EAK	4
60181971004	**MW-152/GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	50
		EPA 8260/OA1	EAK	5
		SM 4500-H+B	JML	1

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Date: February 18, 2015

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A library scan was performed for the volatiles method EPA 8260 and the Tentatively Identified Compound reports are included per each sample. The compound Isopropanol was not identified in the search.

Amended report revised 02/17/15 to correct the dilution factor applicable for method EPA 8260 as a 50x for sample 60181971004, MW-152/GW-01.
.

Amended report revised 01/08/15 to correct the volatiles reported to reflect the site specific compound list.

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Date: February 18, 2015

MW-171/GW-01 (Lab ID: 60181971001)

• The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

The TEH as Diesel No2 method detection limit for the re-extraction of OA2 for MW-171 is 0.50 mg/L.

MW-152/GW-01 (Lab ID: 60181971004)

• The volatile results are revised to correctly reflect a 50x dilution factor that was not included in the initial reporting for sample MW-152/GW-01.

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for OA2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H2: Extraction or preparation conducted outside EPA method holding time.
- MW-171/GW-01 (Lab ID: 60181971001)

Sample Preparation:
The samples were prepared in accordance with OA2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: OEXT/47005

B: Analyte was detected in the associated method blank.
- BLANK for HBN 362458 [OEXT/470 (Lab ID: 1473887)
  - TEH as Diesel No.2

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/47005

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: OEXT/47087

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: February 18, 2015

Analyte Comments:

QC Batch: OEXT/47005

1e: The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to late motor oil range. Quantitation achieved using diesel fuel as a reference standard.

- MW-152/GW-01 (Lab ID: 60181971004)
  - TEH as Diesel No.2
- MW-171/GW-01 (Lab ID: 60181971001)
  - TEH as Diesel No.2

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Method: **EPA 7470**
Description: 7470 Mercury
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/9033

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60181930003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1476534)
  - Mercury, Dissolved
- MSD (Lab ID: 1476535)
  - Mercury, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for EPA 8270C by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/47004

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65590

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/65624

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/65646

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Method: **EPA 8260/OA1**
Description: 8260/OA1 UST, Water
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
4 samples were analyzed for EPA 8260/OA1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65594

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/65670

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Burns and McDonnell_BP
Date: February 18, 2015

General Information:
3 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- FIELD BLANK-01 (Lab ID: 60181971002)
- MW-152/GW-01 (Lab ID: 60181971004)
- MW-171/GW-01 (Lab ID: 60181971001)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: MW-171/GW-01 **Lab ID: 60181971001** Collected: 11/03/14 16:05 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

The TEH as Diesel No2 method detection limit for the re-extraction of OA2 for MW-171 is 0.50 mg/L.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:46	68334-30-5	
Diesel Fuel	**2.0**	mg/L	1.0	1	11/12/14 00:00	11/13/14 21:35	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:46	68553-00-4	
Fuel Oil	ND	mg/L	1.0	1	11/12/14 00:00	11/13/14 21:35	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:46	94114-58-6	
Jet Fuel	ND	mg/L	1.0	1	11/12/14 00:00	11/13/14 21:35	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:46	8008-20-6	
Kerosene	ND	mg/L	1.0	1	11/12/14 00:00	11/13/14 21:35	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:46	8030-30-6	
Mineral Spirits	ND	mg/L	1.0	1	11/12/14 00:00	11/13/14 21:35	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:46	64742-65-0	
Motor Oil	ND	mg/L	1.0	1	11/12/14 00:00	11/13/14 21:35	64742-65-0	H2
TEH as Diesel No.2	**2.7**	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:46		1e,B
TEH as Diesel No.2	ND	mg/L	1.0	1	11/12/14 00:00	11/13/14 21:35		H2
Surrogates								
p-Terphenyl (S)	96	%	29-122	1	11/12/14 00:00	11/13/14 21:35	92-94-4	
p-Terphenyl (S)	93	%	29-122	1	11/06/14 00:00	11/07/14 13:46	92-94-4	
n-Tetracosane (S)	91	%	20-120	1	11/12/14 00:00	11/13/14 21:35	646-31-1	
n-Tetracosane (S)	85	%	20-120	1	11/06/14 00:00	11/07/14 13:46	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**21.2**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:27	7440-38-2	
Barium	**407**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:27	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:27	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:27	7440-47-3	
Lead	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:27	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/08/14 17:15	11/12/14 11:27	7782-49-2	
Silver	ND	ug/L	7.0	1	11/08/14 17:15	11/12/14 11:27	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**19.4**	ug/L	10.0	1	11/13/14 14:45	11/14/14 13:55	7440-38-2	
Barium, Dissolved	**382**	ug/L	10.0	1	11/13/14 14:45	11/14/14 13:55	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 13:55	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 13:55	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 13:55	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 13:55	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 13:55	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 11:41	7439-97-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: MW-171/GW-01 **Lab ID: 60181971001** Collected: 11/03/14 16:05 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

The TEH as Diesel No2 method detection limit for the re-extraction of OA2 for MW-171 is 0.50 mg/L.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 12:10	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	106-46-7	
Diethylphthalate	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	105-67-9	
Dimethylphthalate	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	84-74-2	
2,4-Dinitrophenol	ND	ug/L	51.0	1	11/07/14 00:00	11/12/14 22:17	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17		
4-Nitrophenol	ND	ug/L	51.0	1	11/07/14 00:00	11/12/14 22:17	100-02-7	
Phenol	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	108-95-2	
Pyridine	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	110-86-1	
Quinoline	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:17	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	83	%	10-135	1	11/07/14 00:00	11/12/14 22:17	4165-60-0	
2-Fluorobiphenyl (S)	81	%	19-124	1	11/07/14 00:00	11/12/14 22:17	321-60-8	
Terphenyl-d14 (S)	90	%	24-131	1	11/07/14 00:00	11/12/14 22:17	1718-51-0	
Phenol-d6 (S)	34	%	10-120	1	11/07/14 00:00	11/12/14 22:17	13127-88-3	
2-Fluorophenol (S)	47	%	13-120	1	11/07/14 00:00	11/12/14 22:17	367-12-4	
2,4,6-Tribromophenol (S)	91	%	29-121	1	11/07/14 00:00	11/12/14 22:17	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.58**	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	83-32-9	
Acenaphthylene	**0.19**	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	208-96-8	
Anthracene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	207-08-9	
Chrysene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	53-70-3	
Fluoranthene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	206-44-0	
Fluorene	**0.93**	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	193-39-5	
1-Methylnaphthalene	**12.8**	ug/L	0.53	1	11/06/14 00:00	11/07/14 15:48	90-12-0	
2-Methylnaphthalene	**3.8**	ug/L	0.53	1	11/06/14 00:00	11/07/14 15:48	91-57-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: MW-171/GW-01 **Lab ID: 60181971001** Collected: 11/03/14 16:05 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

The TEH as Diesel No2 method detection limit for the re-extraction of OA2 for MW-171 is 0.50 mg/L.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Naphthalene	**8.2**	ug/L	0.53	1	11/06/14 00:00	11/07/14 15:48	91-20-3	
Phenanthrene	ND	ug/L	0.53	1	11/06/14 00:00	11/07/14 15:48	85-01-8	
Pyrene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 15:48	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	84	%	36-120	1	11/06/14 00:00	11/07/14 15:48	321-60-8	
Terphenyl-d14 (S)	90	%	29-134	1	11/06/14 00:00	11/07/14 15:48	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	200	20		11/10/14 15:47	67-64-1	
Benzene	**82.2**	ug/L	20.0	20		11/10/14 15:47	71-43-2	
Bromodichloromethane	ND	ug/L	20.0	20		11/10/14 15:47	75-27-4	
2-Butanone (MEK)	ND	ug/L	200	20		11/10/14 15:47	78-93-3	
n-Butylbenzene	ND	ug/L	20.0	20		11/10/14 15:47	104-51-8	
sec-Butylbenzene	ND	ug/L	20.0	20		11/10/14 15:47	135-98-8	
tert-Butyl Alcohol	ND	ug/L	200	20		11/10/14 15:47	75-65-0	
Carbon disulfide	ND	ug/L	100	20		11/10/14 15:47	75-15-0	
Chlorobenzene	ND	ug/L	20.0	20		11/10/14 15:47	108-90-7	
Chloroethane	ND	ug/L	20.0	20		11/10/14 15:47	75-00-3	
Chloroform	ND	ug/L	20.0	20		11/10/14 15:47	67-66-3	
Chloromethane	ND	ug/L	20.0	20		11/10/14 15:47	74-87-3	
Dibromochloromethane	ND	ug/L	20.0	20		11/10/14 15:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	20.0	20		11/10/14 15:47	106-93-4	
Dibromomethane	ND	ug/L	20.0	20		11/10/14 15:47	74-95-3	
1,1-Dichloroethane	ND	ug/L	20.0	20		11/10/14 15:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		11/10/14 15:47	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	20.0	20		11/10/14 15:47	540-59-0	
1,1-Dichloroethene	ND	ug/L	20.0	20		11/10/14 15:47	75-35-4	
1,2-Dichloropropane	ND	ug/L	20.0	20		11/10/14 15:47	78-87-5	
Ethylbenzene	ND	ug/L	20.0	20		11/10/14 15:47	100-41-4	
2-Hexanone	ND	ug/L	200	20		11/10/14 15:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	20.0	20		11/10/14 15:47	98-82-8	
p-Isopropyltoluene	ND	ug/L	20.0	20		11/10/14 15:47	99-87-6	
Methylene chloride	ND	ug/L	20.0	20		11/10/14 15:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	20		11/10/14 15:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	20		11/10/14 15:47	1634-04-4	
n-Propylbenzene	ND	ug/L	20.0	20		11/10/14 15:47	103-65-1	
Styrene	ND	ug/L	20.0	20		11/10/14 15:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		11/10/14 15:47	79-34-5	
Tetrachloroethene	ND	ug/L	20.0	20		11/10/14 15:47	127-18-4	
Toluene	ND	ug/L	20.0	20		11/10/14 15:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	20.0	20		11/10/14 15:47	71-55-6	
Trichloroethene	ND	ug/L	20.0	20		11/10/14 15:47	79-01-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: MW-171/GW-01 **Lab ID: 60181971001** Collected: 11/03/14 16:05 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

The TEH as Diesel No2 method detection limit for the re-extraction of OA2 for MW-171 is 0.50 mg/L.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	20.0	20		11/10/14 15:47	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	20.0	20		11/10/14 15:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	20.0	20		11/10/14 15:47	108-67-8	
Vinyl chloride	ND	ug/L	20.0	20		11/10/14 15:47	75-01-4	
Xylene (Total)	ND	ug/L	60.0	20		11/10/14 15:47	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	2000	20		11/10/14 15:47	123-91-1	
Vinyl acetate	ND	ug/L	200	20		11/10/14 15:47	108-05-4	
Acrylonitrile	ND	ug/L	400	20		11/10/14 15:47	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	20		11/10/14 15:47	110-57-6	
tert-Amylmethyl ether	ND	ug/L	20.0	20		11/10/14 15:47	994-05-8	
Diisopropyl ether	ND	ug/L	20.0	20		11/10/14 15:47	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	20.0	20		11/10/14 15:47	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	20		11/10/14 15:47	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	20		11/10/14 15:47	17060-07-0	
Toluene-d8 (S)	99	%	80-120	20		11/10/14 15:47	2037-26-5	
Preservation pH	**1.0**		0.10	20		11/10/14 15:47		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	10.0	20		11/10/14 15:47		
Surrogates								
Toluene-d8 (S)	99	%	80-120	20		11/10/14 15:47	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	20		11/10/14 15:47	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	20		11/10/14 15:47	17060-07-0	
Preservation pH	**1.0**		0.10	20		11/10/14 15:47		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		11/06/14 13:15		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: FIELD BLANK-01 **Lab ID: 60181971002** Collected: 11/03/14 16:17 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:53	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:53	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:53	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:53	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:53	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:53	64742-65-0	
TEH as Diesel No.2	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 13:53		
Surrogates								
p-Terphenyl (S)	65	%	29-122	1	11/06/14 00:00	11/07/14 13:53	92-94-4	
n-Tetracosane (S)	48	%	20-120	1	11/06/14 00:00	11/07/14 13:53	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:29	7440-38-2	
Barium	ND	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:29	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:29	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:29	7440-47-3	
Lead	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:29	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/08/14 17:15	11/12/14 11:29	7782-49-2	
Silver	ND	ug/L	7.0	1	11/08/14 17:15	11/12/14 11:29	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 13:59	7440-38-2	
Barium, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 13:59	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 13:59	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 13:59	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 13:59	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 13:59	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 13:59	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 11:43	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 12:13	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	106-46-7	
Diethylphthalate	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	105-67-9	
Dimethylphthalate	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	84-74-2	
2,4-Dinitrophenol	ND	ug/L	51.0	1	11/07/14 00:00	11/12/14 22:37	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: FIELD BLANK-01 **Lab ID: 60181971002** Collected: 11/03/14 16:17 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37		
4-Nitrophenol	ND	ug/L	51.0	1	11/07/14 00:00	11/12/14 22:37	100-02-7	
Phenol	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	108-95-2	
Pyridine	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	110-86-1	
Quinoline	ND	ug/L	10.2	1	11/07/14 00:00	11/12/14 22:37	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	79	%	10-135	1	11/07/14 00:00	11/12/14 22:37	4165-60-0	
2-Fluorobiphenyl (S)	80	%	19-124	1	11/07/14 00:00	11/12/14 22:37	321-60-8	
Terphenyl-d14 (S)	90	%	24-131	1	11/07/14 00:00	11/12/14 22:37	1718-51-0	
Phenol-d6 (S)	29	%	10-120	1	11/07/14 00:00	11/12/14 22:37	13127-88-3	
2-Fluorophenol (S)	44	%	13-120	1	11/07/14 00:00	11/12/14 22:37	367-12-4	
2,4,6-Tribromophenol (S)	83	%	29-121	1	11/07/14 00:00	11/12/14 22:37	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	83-32-9	
Acenaphthylene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	208-96-8	
Anthracene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	207-08-9	
Chrysene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	53-70-3	
Fluoranthene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	206-44-0	
Fluorene	**0.29**	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.48	1	11/06/14 00:00	11/07/14 16:08	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.48	1	11/06/14 00:00	11/07/14 16:08	91-57-6	
Naphthalene	ND	ug/L	0.48	1	11/06/14 00:00	11/07/14 16:08	91-20-3	
Phenanthrene	ND	ug/L	0.48	1	11/06/14 00:00	11/07/14 16:08	85-01-8	
Pyrene	ND	ug/L	0.095	1	11/06/14 00:00	11/07/14 16:08	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	74	%	36-120	1	11/06/14 00:00	11/07/14 16:08	321-60-8	
Terphenyl-d14 (S)	75	%	29-134	1	11/06/14 00:00	11/07/14 16:08	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/06/14 18:52	67-64-1	
Benzene	ND	ug/L	1.0	1		11/06/14 18:52	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/14 18:52	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/14 18:52	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/14 18:52	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/14 18:52	135-98-8	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/06/14 18:52	75-65-0	
Carbon disulfide	ND	ug/L	5.0	1		11/06/14 18:52	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/06/14 18:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/14 18:52	75-00-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: FIELD BLANK-01 **Lab ID: 60181971002** Collected: 11/03/14 16:17 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloroform	ND	ug/L	1.0	1		11/06/14 18:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/14 18:52	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/14 18:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/14 18:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/06/14 18:52	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/14 18:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/14 18:52	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/06/14 18:52	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/14 18:52	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/14 18:52	78-87-5	
Ethylbenzene	ND	ug/L	1.0	1		11/06/14 18:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/06/14 18:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/14 18:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/14 18:52	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/06/14 18:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/14 18:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 18:52	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/14 18:52	103-65-1	
Styrene	ND	ug/L	1.0	1		11/06/14 18:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/14 18:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/14 18:52	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/14 18:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/14 18:52	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/06/14 18:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/14 18:52	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 18:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 18:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/14 18:52	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/14 18:52	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/06/14 18:52	123-91-1	
Vinyl acetate	ND	ug/L	10.0	1		11/06/14 18:52	108-05-4	
Acrylonitrile	ND	ug/L	20.0	1		11/06/14 18:52	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/06/14 18:52	110-57-6	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/06/14 18:52	994-05-8	
Diisopropyl ether	ND	ug/L	1.0	1		11/06/14 18:52	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 18:52	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		11/06/14 18:52	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120	1		11/06/14 18:52	17060-07-0	
Toluene-d8 (S)	89	%	80-120	1		11/06/14 18:52	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/06/14 18:52		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/13/14 19:13		
Surrogates								
Toluene-d8 (S)	100	%	80-120	1		11/13/14 19:13	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	1		11/13/14 19:13	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: FIELD BLANK-01 **Lab ID: 60181971002** Collected: 11/03/14 16:17 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		11/13/14 19:13	17060-07-0	
Preservation pH	**1.0**		0.10	1		11/13/14 19:13		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.2**	Std. Units	0.10	1		11/06/14 13:15		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: TB-01 **Lab ID: 60181971003** Collected: 11/03/14 16:05 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/06/14 18:08	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/06/14 18:08	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/06/14 18:08	994-05-8	
Benzene	ND	ug/L	1.0	1		11/06/14 18:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/14 18:08	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/14 18:08	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/06/14 18:08	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/14 18:08	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/14 18:08	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/06/14 18:08	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/06/14 18:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/14 18:08	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/14 18:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/14 18:08	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/14 18:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/14 18:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/06/14 18:08	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/06/14 18:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/06/14 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/14 18:08	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/06/14 18:08	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/06/14 18:08	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/14 18:08	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/06/14 18:08	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/06/14 18:08	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/06/14 18:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 18:08	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/06/14 18:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/14 18:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/14 18:08	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/06/14 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/14 18:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 18:08	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/14 18:08	103-65-1	
Styrene	ND	ug/L	1.0	1		11/06/14 18:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/14 18:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/06/14 18:08	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/14 18:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/14 18:08	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/07/14 05:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/14 18:08	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 18:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 18:08	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/06/14 18:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/06/14 18:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/14 18:08	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: TB-01 **Lab ID: 60181971003** Collected: 11/03/14 16:05 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	105	%	80-120	1		11/06/14 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/06/14 18:08	17060-07-0	
Toluene-d8 (S)	90	%	80-120	1		11/06/14 18:08	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/06/14 18:08		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/07/14 05:53		
Surrogates								
Toluene-d8 (S)	100	%	80-120	1		11/07/14 05:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%	80-120	1		11/07/14 05:53	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/07/14 05:53	17060-07-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: MW-152/GW-01 **Lab ID: 60181971004** Collected: 11/04/14 08:33 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:38	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:38	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:38	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:38	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:38	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:38	64742-65-0	
TEH as Diesel No.2	**6.5**	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:38		1e
Surrogates								
p-Terphenyl (S)	83	%	29-122	1	11/06/14 00:00	11/07/14 14:38	92-94-4	
n-Tetracosane (S)	76	%	20-120	1	11/06/14 00:00	11/07/14 14:38	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**37.8**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:31	7440-38-2	
Barium	**576**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:31	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:31	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:31	7440-47-3	
Lead	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:31	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/08/14 17:15	11/12/14 11:31	7782-49-2	
Silver	ND	ug/L	7.0	1	11/08/14 17:15	11/12/14 11:31	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**33.8**	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:09	7440-38-2	
Barium, Dissolved	**555**	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:09	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 14:09	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:09	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:09	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 14:09	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 14:09	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 11:49	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 12:15	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	106-46-7	
Diethylphthalate	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	105-67-9	
Dimethylphthalate	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	84-74-2	
2,4-Dinitrophenol	ND	ug/L	52.6	1	11/07/14 00:00	11/13/14 01:01	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: MW-152/GW-01 **Lab ID: 60181971004** Collected: 11/04/14 08:33 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01		
4-Nitrophenol	ND	ug/L	52.6	1	11/07/14 00:00	11/13/14 01:01	100-02-7	
Phenol	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	108-95-2	
Pyridine	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	110-86-1	
Quinoline	ND	ug/L	10.5	1	11/07/14 00:00	11/13/14 01:01	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	79	%	10-135	1	11/07/14 00:00	11/13/14 01:01	4165-60-0	
2-Fluorobiphenyl (S)	80	%	19-124	1	11/07/14 00:00	11/13/14 01:01	321-60-8	
Terphenyl-d14 (S)	90	%	24-131	1	11/07/14 00:00	11/13/14 01:01	1718-51-0	
Phenol-d6 (S)	32	%	10-120	1	11/07/14 00:00	11/13/14 01:01	13127-88-3	
2-Fluorophenol (S)	15	%	13-120	1	11/07/14 00:00	11/13/14 01:01	367-12-4	
2,4,6-Tribromophenol (S)	90	%	29-121	1	11/07/14 00:00	11/13/14 01:01	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.87**	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	83-32-9	
Acenaphthylene	**0.28**	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	208-96-8	
Anthracene	**0.16**	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	206-44-0	
Fluorene	**0.74**	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	193-39-5	
1-Methylnaphthalene	**82.4**	ug/L	25.0	50	11/06/14 00:00	11/10/14 16:49	90-12-0	
2-Methylnaphthalene	**136**	ug/L	25.0	50	11/06/14 00:00	11/10/14 16:49	91-57-6	
Naphthalene	**468**	ug/L	25.0	50	11/06/14 00:00	11/10/14 16:49	91-20-3	
Phenanthrene	**0.94**	ug/L	0.50	1	11/06/14 00:00	11/07/14 17:32	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:32	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	85	%	36-120	1	11/06/14 00:00	11/07/14 17:32	321-60-8	
Terphenyl-d14 (S)	93	%	29-134	1	11/06/14 00:00	11/07/14 17:32	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	500	50		11/06/14 21:20	67-64-1	
Benzene	**4380**	ug/L	50.0	50		11/06/14 21:20	71-43-2	
Bromodichloromethane	ND	ug/L	50.0	50		11/06/14 21:20	75-27-4	
2-Butanone (MEK)	ND	ug/L	500	50		11/06/14 21:20	78-93-3	
n-Butylbenzene	**152**	ug/L	50.0	50		11/06/14 21:20	104-51-8	
sec-Butylbenzene	**60.9**	ug/L	50.0	50		11/06/14 21:20	135-98-8	
tert-Butyl Alcohol	ND	ug/L	500	50		11/06/14 21:20	75-65-0	
Carbon disulfide	ND	ug/L	250	50		11/06/14 21:20	75-15-0	
Chlorobenzene	ND	ug/L	50.0	50		11/06/14 21:20	108-90-7	
Chloroethane	ND	ug/L	50.0	50		11/06/14 21:20	75-00-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: MW-152/GW-01 **Lab ID: 60181971004** Collected: 11/04/14 08:33 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloroform	ND	ug/L	50.0	50		11/06/14 21:20	67-66-3	
Chloromethane	ND	ug/L	50.0	50		11/06/14 21:20	74-87-3	
Dibromochloromethane	ND	ug/L	50.0	50		11/06/14 21:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		11/06/14 21:20	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		11/06/14 21:20	74-95-3	
1,1-Dichloroethane	ND	ug/L	50.0	50		11/06/14 21:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		11/06/14 21:20	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	50.0	50		11/06/14 21:20	540-59-0	
1,1-Dichloroethene	ND	ug/L	50.0	50		11/06/14 21:20	75-35-4	
1,2-Dichloropropane	ND	ug/L	50.0	50		11/06/14 21:20	78-87-5	
Ethylbenzene	**8290**	ug/L	50.0	50		11/06/14 21:20	100-41-4	
2-Hexanone	ND	ug/L	500	50		11/06/14 21:20	591-78-6	
Isopropylbenzene (Cumene)	**495**	ug/L	50.0	50		11/06/14 21:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		11/06/14 21:20	99-87-6	
Methylene chloride	ND	ug/L	50.0	50		11/06/14 21:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	50		11/06/14 21:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		11/06/14 21:20	1634-04-4	
n-Propylbenzene	**1140**	ug/L	50.0	50		11/06/14 21:20	103-65-1	
Styrene	ND	ug/L	50.0	50		11/06/14 21:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		11/06/14 21:20	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	50		11/06/14 21:20	127-18-4	
Toluene	**491**	ug/L	50.0	50		11/06/14 21:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		11/06/14 21:20	71-55-6	
Trichloroethene	ND	ug/L	50.0	50		11/06/14 21:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		11/06/14 21:20	75-69-4	
1,2,4-Trimethylbenzene	**4690**	ug/L	50.0	50		11/06/14 21:20	95-63-6	
1,3,5-Trimethylbenzene	**1250**	ug/L	50.0	50		11/06/14 21:20	108-67-8	
Vinyl chloride	ND	ug/L	50.0	50		11/06/14 21:20	75-01-4	
Xylene (Total)	**24200**	ug/L	150	50		11/06/14 21:20	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	5000	50		11/06/14 21:20	123-91-1	
Vinyl acetate	ND	ug/L	500	50		11/06/14 21:20	108-05-4	
Acrylonitrile	ND	ug/L	1000	50		11/06/14 21:20	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	250	50		11/06/14 21:20	110-57-6	
tert-Amylmethyl ether	ND	ug/L	50.0	50		11/06/14 21:20	994-05-8	
Diisopropyl ether	ND	ug/L	50.0	50		11/06/14 21:20	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	50.0	50		11/06/14 21:20	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	50		11/06/14 21:20	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120	50		11/06/14 21:20	17060-07-0	
Toluene-d8 (S)	90	%	80-120	50		11/06/14 21:20	2037-26-5	
Preservation pH	**1.0**		0.10	50		11/06/14 21:20		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**90.0**	mg/L	25.0	50		11/13/14 19:27		
Surrogates								
Toluene-d8 (S)	102	%	80-120	50		11/13/14 19:27	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	50		11/13/14 19:27	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181971

Sample: MW-152/GW-01 **Lab ID: 60181971004** Collected: 11/04/14 08:33 Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	80-120	50		11/13/14 19:27	17060-07-0	
Preservation pH	**1.0**		0.10	50		11/13/14 19:27		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		11/06/14 13:15		H6

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: MERP/9026 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 60181971001, 60181971002, 60181971004

METHOD BLANK: 1475826 Matrix: Water
Associated Lab Samples: 60181971001, 60181971002, 60181971004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/10/14 11:25	

LABORATORY CONTROL SAMPLE: 1475827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1475828 1475829

Parameter	Units	60181930002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	5.2	100	104	75-125	4	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: MERP/9033 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 60181971001, 60181971002, 60181971004

METHOD BLANK: 1476532 Matrix: Water
Associated Lab Samples: 60181971001, 60181971002, 60181971004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	11/12/14 11:50	

LABORATORY CONTROL SAMPLE: 1476533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1476534 1476535

Parameter	Units	60181930003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	2.5	2.5	49	50	75-125	2	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: MPRP/29708 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET
Associated Lab Samples: 60181971001, 60181971002, 60181971004

METHOD BLANK: 1475990 — Matrix: Water
Associated Lab Samples: 60181971001, 60181971002, 60181971004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	11/12/14 11:11	
Barium	ug/L	ND	10.0	11/12/14 11:11	
Cadmium	ug/L	ND	5.0	11/12/14 11:11	
Chromium	ug/L	ND	5.0	11/12/14 11:11	
Lead	ug/L	ND	5.0	11/12/14 11:11	
Selenium	ug/L	ND	15.0	11/12/14 11:11	
Silver	ug/L	ND	7.0	11/12/14 11:11	

LABORATORY CONTROL SAMPLE: 1475991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	1050	105	91-106	
Barium	ug/L	1000	1060	106	90-111	
Cadmium	ug/L	1000	1040	104	92-109	
Chromium	ug/L	1000	999	100	89-109	
Lead	ug/L	1000	1040	104	91-110	
Selenium	ug/L	1000	1050	105	91-107	
Silver	ug/L	500	502	100	88-108	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1475992 1475993

Parameter	Units	60181930001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	33.1	1000	1000	1090	1100	105	107	75-125	1	20	
Barium	ug/L	500	1000	1000	1550	1580	105	108	75-125	2	20	
Cadmium	ug/L	ND	1000	1000	1040	1040	104	104	75-125	0	20	
Chromium	ug/L	ND	1000	1000	949	962	95	96	75-125	1	20	
Lead	ug/L	ND	1000	1000	1000	1010	100	101	75-125	1	20	
Selenium	ug/L	ND	1000	1000	1030	1040	103	104	75-125	0	20	
Silver	ug/L	ND	500	500	491	495	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: MPRP/29780 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60181971001, 60181971002, 60181971004

METHOD BLANK: 1478079 | Matrix: Water
Associated Lab Samples: 60181971001, 60181971002, 60181971004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	10.0	11/14/14 13:28	
Barium, Dissolved	ug/L	ND	10.0	11/14/14 13:28	
Cadmium, Dissolved	ug/L	ND	1.0	11/14/14 13:28	
Chromium, Dissolved	ug/L	ND	5.0	11/14/14 13:28	
Lead, Dissolved	ug/L	ND	5.0	11/14/14 13:28	
Selenium, Dissolved	ug/L	ND	15.0	11/14/14 13:28	
Silver, Dissolved	ug/L	ND	7.0	11/14/14 13:28	

LABORATORY CONTROL SAMPLE: 1478080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	960	96	80-120	
Barium, Dissolved	ug/L	1000	1000	100	80-120	
Cadmium, Dissolved	ug/L	1000	970	97	80-120	
Chromium, Dissolved	ug/L	1000	1010	101	80-120	
Lead, Dissolved	ug/L	1000	972	97	80-120	
Selenium, Dissolved	ug/L	1000	970	97	80-120	
Silver, Dissolved	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1478081 1478082

Parameter	Units	60181930001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	32.4	1000	1000	1010	1000	98	97	75-125	1	20	
Barium, Dissolved	ug/L	551	1000	1000	1560	1550	101	100	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	973	966	97	97	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	1000	993	100	99	75-125	1	20	
Lead, Dissolved	ug/L	ND	1000	1000	952	944	95	94	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	976	974	97	97	75-125	0	20	
Silver, Dissolved	ug/L	ND	500	500	497	493	99	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: MSV/65590 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60181971002, 60181971003, 60181971004

METHOD BLANK: 1474143 Matrix: Water
Associated Lab Samples: 60181971002, 60181971003, 60181971004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,1-Dichloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,1-Dichloroethene	ug/L	ND	1.0	11/06/14 17:39	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dichloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dichloropropane	ug/L	ND	1.0	11/06/14 17:39	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/06/14 17:39	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/06/14 17:39	
2-Butanone (MEK)	ug/L	ND	10.0	11/06/14 17:39	
2-Hexanone	ug/L	ND	10.0	11/06/14 17:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/06/14 17:39	
Acetone	ug/L	ND	10.0	11/06/14 17:39	
Acrylonitrile	ug/L	ND	20.0	11/06/14 17:39	
Benzene	ug/L	ND	1.0	11/06/14 17:39	
Bromodichloromethane	ug/L	ND	1.0	11/06/14 17:39	
Carbon disulfide	ug/L	ND	5.0	11/06/14 17:39	
Chlorobenzene	ug/L	ND	1.0	11/06/14 17:39	
Chloroethane	ug/L	ND	1.0	11/06/14 17:39	
Chloroform	ug/L	ND	1.0	11/06/14 17:39	
Chloromethane	ug/L	ND	1.0	11/06/14 17:39	
Dibromochloromethane	ug/L	ND	1.0	11/06/14 17:39	
Dibromomethane	ug/L	ND	1.0	11/06/14 17:39	
Diisopropyl ether	ug/L	ND	1.0	11/06/14 17:39	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/06/14 17:39	
Ethylbenzene	ug/L	ND	1.0	11/06/14 17:39	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/06/14 17:39	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/06/14 17:39	
Methylene chloride	ug/L	ND	1.0	11/06/14 17:39	
n-Butylbenzene	ug/L	ND	1.0	11/06/14 17:39	
n-Propylbenzene	ug/L	ND	1.0	11/06/14 17:39	
p-Isopropyltoluene	ug/L	ND	1.0	11/06/14 17:39	
sec-Butylbenzene	ug/L	ND	1.0	11/06/14 17:39	
Styrene	ug/L	ND	1.0	11/06/14 17:39	
tert-Amylmethyl ether	ug/L	ND	1.0	11/06/14 17:39	
tert-Butyl Alcohol	ug/L	ND	10.0	11/06/14 17:39	
Tetrachloroethene	ug/L	ND	1.0	11/06/14 17:39	
Toluene	ug/L	ND	1.0	11/06/14 17:39	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/06/14 17:39	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

METHOD BLANK: 1474143 Matrix: Water
Associated Lab Samples: 60181971002, 60181971003, 60181971004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	11/06/14 17:39	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/14 17:39	
Vinyl acetate	ug/L	ND	10.0	11/06/14 17:39	
Vinyl chloride	ug/L	ND	1.0	11/06/14 17:39	
Xylene (Total)	ug/L	ND	3.0	11/06/14 17:39	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/06/14 17:39	
4-Bromofluorobenzene (S)	%	103	80-120	11/06/14 17:39	
Toluene-d8 (S)	%	87	80-120	11/06/14 17:39	

LABORATORY CONTROL SAMPLE: 1474144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.2	111	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	17.0	85	73-124	
1,1-Dichloroethane	ug/L	20	22.5	113	77-120	
1,1-Dichloroethene	ug/L	20	23.1	115	78-126	
1,2,4-Trimethylbenzene	ug/L	20	18.4	92	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	20.0	100	80-127	
1,2-Dichloroethane	ug/L	20	21.0	105	77-123	
1,2-Dichloroethene (Total)	ug/L	40	43.8	110	80-120	
1,2-Dichloropropane	ug/L	20	21.5	107	80-121	
1,3,5-Trimethylbenzene	ug/L	20	18.6	93	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	78.3J	78	44-160	
2-Butanone (MEK)	ug/L	100	105	105	52-145	
2-Hexanone	ug/L	100	87.3	87	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	71-131	
Acetone	ug/L	100	102	102	32-155	
Acrylonitrile	ug/L	200	219	110	75-125	
Benzene	ug/L	20	23.0	115	80-120	
Bromodichloromethane	ug/L	20	22.8	114	80-120	
Carbon disulfide	ug/L	20	24.1	120	65-125	
Chlorobenzene	ug/L	20	21.2	106	80-120	
Chloroethane	ug/L	20	20.8	104	55-137	
Chloroform	ug/L	20	21.8	109	79-120	
Chloromethane	ug/L	20	20.6	103	22-138	
Dibromochloromethane	ug/L	20	19.1	96	80-120	
Dibromomethane	ug/L	20	21.2	106	80-122	
Diisopropyl ether	ug/L	20	21.7	109	70-123	
Ethyl-tert-butyl ether	ug/L	20	21.7	109	73-120	
Ethylbenzene	ug/L	20	19.6	98	80-121	
Isopropylbenzene (Cumene)	ug/L	20	20.8	104	80-136	
Methyl-tert-butyl ether	ug/L	20	21.7	108	74-125	
Methylene chloride	ug/L	20	22.8	114	73-126	
n-Butylbenzene	ug/L	20	17.3	87	83-123	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

LABORATORY CONTROL SAMPLE: 1474144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	20	18.0	90	80-122	
p-Isopropyltoluene	ug/L	20	17.6	88	80-124	
sec-Butylbenzene	ug/L	20	17.7	88	80-129	
Styrene	ug/L	20	20.7	103	80-120	
tert-Amylmethyl ether	ug/L	20	21.7	108	74-120	
tert-Butyl Alcohol	ug/L	100	95.0	95	50-139	
Tetrachloroethene	ug/L	20	19.9	99	80-121	
Toluene	ug/L	20	20.2	101	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	16.6	83	59-133	
Trichloroethene	ug/L	20	22.6	113	80-120	
Trichlorofluoromethane	ug/L	20	23.3	116	67-120	
Vinyl acetate	ug/L	20	20.8	104	45-160	
Vinyl chloride	ug/L	20	23.5	117	59-120	
Xylene (Total)	ug/L	60	61.3	102	80-121	
1,2-Dichloroethane-d4 (S)	%			93	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			91	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: MSV/65624
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60181971003

METHOD BLANK: 1475069
Matrix: Water
Associated Lab Samples: 60181971003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	11/07/14 01:23	
1,2-Dichloroethane-d4 (S)	%	103	80-120	11/07/14 01:23	
4-Bromofluorobenzene (S)	%	99	80-120	11/07/14 01:23	
Toluene-d8 (S)	%	100	80-120	11/07/14 01:23	

LABORATORY CONTROL SAMPLE: 1475070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichloroethene	ug/L	20	20.5	102	80-120	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: MSV/65646
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60181971001

METHOD BLANK: 1476174
Matrix: Water
Associated Lab Samples: 60181971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	11/10/14 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	11/10/14 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/10/14 12:11	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/10/14 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	11/10/14 12:11	
2-Hexanone	ug/L	ND	10.0	11/10/14 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/10/14 12:11	
Acetone	ug/L	ND	10.0	11/10/14 12:11	
Acrylonitrile	ug/L	ND	20.0	11/10/14 12:11	
Benzene	ug/L	ND	1.0	11/10/14 12:11	
Bromodichloromethane	ug/L	ND	1.0	11/10/14 12:11	
Carbon disulfide	ug/L	ND	5.0	11/10/14 12:11	
Chlorobenzene	ug/L	ND	1.0	11/10/14 12:11	
Chloroethane	ug/L	ND	1.0	11/10/14 12:11	
Chloroform	ug/L	ND	1.0	11/10/14 12:11	
Chloromethane	ug/L	ND	1.0	11/10/14 12:11	
Dibromochloromethane	ug/L	ND	1.0	11/10/14 12:11	
Dibromomethane	ug/L	ND	1.0	11/10/14 12:11	
Diisopropyl ether	ug/L	ND	1.0	11/10/14 12:11	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/10/14 12:11	
Ethylbenzene	ug/L	ND	1.0	11/10/14 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/10/14 12:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/10/14 12:11	
Methylene chloride	ug/L	ND	1.0	11/10/14 12:11	
n-Butylbenzene	ug/L	ND	1.0	11/10/14 12:11	
n-Propylbenzene	ug/L	ND	1.0	11/10/14 12:11	
p-Isopropyltoluene	ug/L	ND	1.0	11/10/14 12:11	
sec-Butylbenzene	ug/L	ND	1.0	11/10/14 12:11	
Styrene	ug/L	ND	1.0	11/10/14 12:11	
tert-Amylmethyl ether	ug/L	ND	1.0	11/10/14 12:11	
tert-Butyl Alcohol	ug/L	ND	10.0	11/10/14 12:11	
Tetrachloroethene	ug/L	ND	1.0	11/10/14 12:11	
Toluene	ug/L	ND	1.0	11/10/14 12:11	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/10/14 12:11	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

METHOD BLANK: 1476174 Matrix: Water
Associated Lab Samples: 60181971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	11/10/14 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/10/14 12:11	
Vinyl acetate	ug/L	ND	10.0	11/10/14 12:11	
Vinyl chloride	ug/L	ND	1.0	11/10/14 12:11	
Xylene (Total)	ug/L	ND	3.0	11/10/14 12:11	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/10/14 12:11	
4-Bromofluorobenzene (S)	%	101	80-120	11/10/14 12:11	
Toluene-d8 (S)	%	99	80-120	11/10/14 12:11	

LABORATORY CONTROL SAMPLE: 1476175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	73-124	
1,1-Dichloroethane	ug/L	20	18.6	93	77-120	
1,1-Dichloroethene	ug/L	20	18.3	92	78-126	
1,2,4-Trimethylbenzene	ug/L	20	20.0	100	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	21.1	106	80-127	
1,2-Dichloroethane	ug/L	20	19.4	97	77-123	
1,2-Dichloroethene (Total)	ug/L	40	38.0	95	80-120	
1,2-Dichloropropane	ug/L	20	19.0	95	80-121	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	104	104	44-160	
2-Butanone (MEK)	ug/L	100	92.8	93	52-145	
2-Hexanone	ug/L	100	101	101	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.5	98	71-131	
Acetone	ug/L	100	96.4	96	32-155	
Acrylonitrile	ug/L	200	204	102	75-125	
Benzene	ug/L	20	18.8	94	80-120	
Bromodichloromethane	ug/L	20	19.8	99	80-120	
Carbon disulfide	ug/L	20	20.7	104	65-125	
Chlorobenzene	ug/L	20	19.7	98	80-120	
Chloroethane	ug/L	20	17.5	88	55-137	
Chloroform	ug/L	20	19.4	97	79-120	
Chloromethane	ug/L	20	18.4	92	22-138	
Dibromochloromethane	ug/L	20	19.9	99	80-120	
Dibromomethane	ug/L	20	20.6	103	80-122	
Diisopropyl ether	ug/L	20	19.3	97	70-123	
Ethyl-tert-butyl ether	ug/L	20	19.4	97	73-120	
Ethylbenzene	ug/L	20	19.7	98	80-121	
Isopropylbenzene (Cumene)	ug/L	20	19.8	99	80-136	
Methyl-tert-butyl ether	ug/L	20	19.4	97	74-125	
Methylene chloride	ug/L	20	19.3	97	73-126	
n-Butylbenzene	ug/L	20	20.2	101	83-123	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

LABORATORY CONTROL SAMPLE: 1476175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Propylbenzene	ug/L	20	19.3	97	80-122	
p-Isopropyltoluene	ug/L	20	19.8	99	80-124	
sec-Butylbenzene	ug/L	20	19.5	97	80-129	
Styrene	ug/L	20	21.0	105	80-120	
tert-Amylmethyl ether	ug/L	20	20.1	100	74-120	
tert-Butyl Alcohol	ug/L	100	98.2	98	50-139	
Tetrachloroethene	ug/L	20	19.1	96	80-121	
Toluene	ug/L	20	19.2	96	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	21.3	107	59-133	
Trichloroethene	ug/L	20	18.9	95	80-120	
Trichlorofluoromethane	ug/L	20	19.5	98	67-120	
Vinyl acetate	ug/L	20	18.2	91	45-160	
Vinyl chloride	ug/L	20	19.8	99	59-120	
Xylene (Total)	ug/L	60	59.8	100	80-121	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: MSV/65594
QC Batch Method: EPA 8260/OA1
Analysis Method: EPA 8260/OA1
Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60181971003

METHOD BLANK: 1474180
Matrix: Water
Associated Lab Samples: 60181971003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/07/14 01:23	
1,2-Dichloroethane-d4 (S)	%	103	80-120	11/07/14 01:23	
4-Bromofluorobenzene (S)	%	99	80-120	11/07/14 01:23	
Toluene-d8 (S)	%	100	80-120	11/07/14 01:23	

LABORATORY CONTROL SAMPLE: 1474181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.8	94	62-121	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: MSV/65670
QC Batch Method: EPA 8260/OA1
Analysis Method: EPA 8260/OA1
Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60181971001

METHOD BLANK: 1476379
Matrix: Water
Associated Lab Samples: 60181971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/10/14 12:11	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/10/14 12:11	
4-Bromofluorobenzene (S)	%	101	80-120	11/10/14 12:11	
Toluene-d8 (S)	%	99	80-120	11/10/14 12:11	

LABORATORY CONTROL SAMPLE: 1476380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.6	90	62-121	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: MSV/65747 | Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 | Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60181971002, 60181971004

METHOD BLANK: 1478494 | Matrix: Water
Associated Lab Samples: 60181971002, 60181971004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/13/14 17:49	
1,2-Dichloroethane-d4 (S)	%	102	80-120	11/13/14 17:49	
4-Bromofluorobenzene (S)	%	100	80-120	11/13/14 17:49	
Toluene-d8 (S)	%	101	80-120	11/13/14 17:49	

LABORATORY CONTROL SAMPLE: 1478495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	4.1	103	62-121	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1478496 1478497

Parameter	Units	60181976014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						99	102	80-120			
4-Bromofluorobenzene (S)	%						98	103	80-120			
Toluene-d8 (S)	%						99	102	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: OEXT/47017 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 60181971001, 60181971002, 60181971004

METHOD BLANK: 1474783 | Matrix: Water
Associated Lab Samples: 60181971001, 60181971002, 60181971004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichlorobenzene	ug/L	ND	10.0	11/09/14 11:55	
1,3-Dichlorobenzene	ug/L	ND	10.0	11/09/14 11:55	
1,4-Dichlorobenzene	ug/L	ND	10.0	11/09/14 11:55	
2,4-Dimethylphenol	ug/L	ND	10.0	11/09/14 11:55	
2,4-Dinitrophenol	ug/L	ND	50.0	11/09/14 11:55	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	11/09/14 11:55	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/09/14 11:55	
4-Nitrophenol	ug/L	ND	50.0	11/09/14 11:55	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	11/09/14 11:55	
Di-n-butylphthalate	ug/L	ND	10.0	11/09/14 11:55	
Diethylphthalate	ug/L	ND	10.0	11/09/14 11:55	
Dimethylphthalate	ug/L	ND	10.0	11/09/14 11:55	
Phenol	ug/L	ND	10.0	11/09/14 11:55	
Pyridine	ug/L	ND	10.0	11/09/14 11:55	
Quinoline	ug/L	ND	10.0	11/09/14 11:55	
2,4,6-Tribromophenol (S)	%	103	29-121	11/09/14 11:55	
2-Fluorobiphenyl (S)	%	89	19-124	11/09/14 11:55	
2-Fluorophenol (S)	%	51	13-120	11/09/14 11:55	
Nitrobenzene-d5 (S)	%	92	10-135	11/09/14 11:55	
Phenol-d6 (S)	%	36	10-120	11/09/14 11:55	
Terphenyl-d14 (S)	%	92	24-131	11/09/14 11:55	

LABORATORY CONTROL SAMPLE: 1474784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	42.6	85	45-120	
1,3-Dichlorobenzene	ug/L	50	41.5	83	44-120	
1,4-Dichlorobenzene	ug/L	50	41.3	83	44-120	
2,4-Dimethylphenol	ug/L	50	45.1	90	35-120	
2,4-Dinitrophenol	ug/L	50	55.3	111	21-120	
2-Methylphenol(o-Cresol)	ug/L	50	43.6	87	40-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	42.1	84	34-120	
4-Nitrophenol	ug/L	50	28.4J	57	10-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	45.2	90	52-123	
Di-n-butylphthalate	ug/L	50	46.2	92	49-125	
Diethylphthalate	ug/L	50	45.7	91	53-120	
Dimethylphthalate	ug/L	50	44.3	89	52-120	
Phenol	ug/L	50	25.3	51	12-120	
Pyridine	ug/L	50	25.8	52	10-120	
Quinoline	ug/L	50	40.7	81	37-120	

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REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

LABORATORY CONTROL SAMPLE: 1474784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%			102	29-121	
2-Fluorobiphenyl (S)	%			87	19-124	
2-Fluorophenol (S)	%			58	13-120	
Nitrobenzene-d5 (S)	%			90	10-135	
Phenol-d6 (S)	%			45	10-120	
Terphenyl-d14 (S)	%			94	24-131	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: OEXT/47004 | Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C | Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60181971001, 60181971002, 60181971004

METHOD BLANK: 1473883 | Matrix: Water
Associated Lab Samples: 60181971001, 60181971002, 60181971004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.50	11/07/14 15:06	
2-Methylnaphthalene	ug/L	ND	0.50	11/07/14 15:06	
Acenaphthene	ug/L	ND	0.10	11/07/14 15:06	
Acenaphthylene	ug/L	ND	0.10	11/07/14 15:06	
Anthracene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(a)anthracene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(a)pyrene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/07/14 15:06	
Chrysene	ug/L	ND	0.10	11/07/14 15:06	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/07/14 15:06	
Fluoranthene	ug/L	ND	0.10	11/07/14 15:06	
Fluorene	ug/L	ND	0.10	11/07/14 15:06	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/07/14 15:06	
Naphthalene	ug/L	ND	0.50	11/07/14 15:06	
Phenanthrene	ug/L	ND	0.50	11/07/14 15:06	
Pyrene	ug/L	ND	0.10	11/07/14 15:06	
2-Fluorobiphenyl (S)	%	84	36-120	11/07/14 15:06	
Terphenyl-d14 (S)	%	94	29-134	11/07/14 15:06	

LABORATORY CONTROL SAMPLE: 1473884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	9.3	93	59-120	
2-Methylnaphthalene	ug/L	10	9.4	94	52-120	
Acenaphthene	ug/L	10	9.2	92	45-120	
Acenaphthylene	ug/L	10	9.5	95	42-120	
Anthracene	ug/L	10	9.4	94	39-120	
Benzo(a)anthracene	ug/L	10	9.8	98	40-125	
Benzo(a)pyrene	ug/L	10	9.8	98	39-122	
Benzo(b)fluoranthene	ug/L	10	9.5	95	33-134	
Benzo(g,h,i)perylene	ug/L	10	8.8	88	27-126	
Benzo(k)fluoranthene	ug/L	10	9.9	99	43-123	
Chrysene	ug/L	10	8.8	88	44-120	
Dibenz(a,h)anthracene	ug/L	10	9.3	93	21-129	
Fluoranthene	ug/L	10	9.5	95	45-126	
Fluorene	ug/L	10	9.6	96	44-120	
Indeno(1,2,3-cd)pyrene	ug/L	10	9.2	92	25-127	
Naphthalene	ug/L	10	9.2	92	44-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

LABORATORY CONTROL SAMPLE: 1473884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	9.2	92	43-120	
Pyrene	ug/L	10	9.1	91	39-120	
2-Fluorobiphenyl (S)	%			89	36-120	
Terphenyl-d14 (S)	%			87	29-134	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: OEXT/47005 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60181971001, 60181971002, 60181971004

METHOD BLANK: 1473887 Matrix: Water
Associated Lab Samples: 60181971001, 60181971002, 60181971004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	11/07/14 13:16	
Fuel Oil	mg/L	ND	0.40	11/07/14 13:16	
Jet Fuel	mg/L	ND	0.40	11/07/14 13:16	
Kerosene	mg/L	ND	0.40	11/07/14 13:16	
Mineral Spirits	mg/L	ND	0.40	11/07/14 13:16	
Motor Oil	mg/L	ND	0.40	11/07/14 13:16	
TEH as Diesel No.2	mg/L	0.42	0.40	11/07/14 13:16	
n-Tetracosane (S)	%	76	20-120	11/07/14 13:16	
p-Terphenyl (S)	%	73	29-122	11/07/14 13:16	

LABORATORY CONTROL SAMPLE: 1473888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	9.1	73	60-122	
n-Tetracosane (S)	%			61	20-120	
p-Terphenyl (S)	%			85	29-122	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: OEXT/47087
QC Batch Method: OA2
Analysis Method: OA2
Analysis Description: OA2 GCS
Associated Lab Samples: 60181971001

METHOD BLANK: 1477452
Matrix: Water
Associated Lab Samples: 60181971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	11/13/14 21:19	
Fuel Oil	mg/L	ND	0.40	11/13/14 21:19	
Jet Fuel	mg/L	ND	0.40	11/13/14 21:19	
Kerosene	mg/L	ND	0.40	11/13/14 21:19	
Mineral Spirits	mg/L	ND	0.40	11/13/14 21:19	
Motor Oil	mg/L	ND	0.40	11/13/14 21:19	
TEH as Diesel No.2	mg/L	ND	0.40	11/13/14 21:19	
n-Tetracosane (S)	%	77	20-120	11/13/14 21:19	
p-Terphenyl (S)	%	80	29-122	11/13/14 21:19	

LABORATORY CONTROL SAMPLE: 1477453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	9.1	72	60-122	
n-Tetracosane (S)	%			66	20-120	
p-Terphenyl (S)	%			82	29-122	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181971

QC Batch: WET/51392 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60181971001, 60181971002, 60181971004

SAMPLE DUPLICATE: 1474065

Parameter	Units	60181930001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	5	H6

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: KDHE NEODESHA
Pace Project No.: 60181971

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/47004

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47005

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65590

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65594

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65624

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65646

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65670

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47087

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to late motor oil range. Quantitation achieved using diesel fuel as a reference standard.

B Analyte was detected in the associated method blank.

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QUALIFIERS

Project: KDHE NEODESHA
Pace Project No.: 60181971

ANALYTE QUALIFIERS

H2	Extraction or preparation conducted outside EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60181971

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60181971001	**MW-171/GW-01**	OA2	OEXT/47005	OA2	GCSV/17922
60181971001	**MW-171/GW-01**	OA2	OEXT/47087	OA2	GCSV/17954
60181971002	**FIELD BLANK-01**	OA2	OEXT/47005	OA2	GCSV/17922
60181971004	**MW-152/GW-01**	OA2	OEXT/47005	OA2	GCSV/17922
60181971001	**MW-171/GW-01**	EPA 3010	MPRP/29708	EPA 6010	ICP/22268
60181971002	**FIELD BLANK-01**	EPA 3010	MPRP/29708	EPA 6010	ICP/22268
60181971004	**MW-152/GW-01**	EPA 3010	MPRP/29708	EPA 6010	ICP/22268
60181971001	**MW-171/GW-01**	EPA 3010	MPRP/29780	EPA 6010	ICP/22310
60181971002	**FIELD BLANK-01**	EPA 3010	MPRP/29780	EPA 6010	ICP/22310
60181971004	**MW-152/GW-01**	EPA 3010	MPRP/29780	EPA 6010	ICP/22310
60181971001	**MW-171/GW-01**	EPA 7470	MERP/9026	EPA 7470	MERC/8980
60181971002	**FIELD BLANK-01**	EPA 7470	MERP/9026	EPA 7470	MERC/8980
60181971004	**MW-152/GW-01**	EPA 7470	MERP/9026	EPA 7470	MERC/8980
60181971001	**MW-171/GW-01**	EPA 7470	MERP/9033	EPA 7470	MERC/8989
60181971002	**FIELD BLANK-01**	EPA 7470	MERP/9033	EPA 7470	MERC/8989
60181971004	**MW-152/GW-01**	EPA 7470	MERP/9033	EPA 7470	MERC/8989
60181971001	**MW-171/GW-01**	EPA 3510	OEXT/47017	EPA 8270	MSSV/15141
60181971002	**FIELD BLANK-01**	EPA 3510	OEXT/47017	EPA 8270	MSSV/15141
60181971004	**MW-152/GW-01**	EPA 3510	OEXT/47017	EPA 8270	MSSV/15141
60181971001	**MW-171/GW-01**	EPA 3510C	OEXT/47004	EPA 8270C by SIM	MSSV/15137
60181971002	**FIELD BLANK-01**	EPA 3510C	OEXT/47004	EPA 8270C by SIM	MSSV/15137
60181971004	**MW-152/GW-01**	EPA 3510C	OEXT/47004	EPA 8270C by SIM	MSSV/15137
60181971001	**MW-171/GW-01**	EPA 5030B/8260	MSV/65646		
60181971002	**FIELD BLANK-01**	EPA 5030B/8260	MSV/65590		
60181971003	**TB-01**	EPA 5030B/8260	MSV/65590		
60181971003	**TB-01**	EPA 5030B/8260	MSV/65624		
60181971004	**MW-152/GW-01**	EPA 5030B/8260	MSV/65590		
60181971001	**MW-171/GW-01**	EPA 8260/OA1	MSV/65670		
60181971002	**FIELD BLANK-01**	EPA 8260/OA1	MSV/65747		
60181971003	**TB-01**	EPA 8260/OA1	MSV/65594		
60181971004	**MW-152/GW-01**	EPA 8260/OA1	MSV/65747		
60181971001	**MW-171/GW-01**	SM 4500-H+B	WET/51392		
60181971002	**FIELD BLANK-01**	SM 4500-H+B	WET/51392		
60181971004	**MW-152/GW-01**	SM 4500-H+B	WET/51392		

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Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO#: 60181971

60181971

Client Name: Burns + McDonnell

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8992 5890 7052 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JB 11/5

Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes ☐No ☐N/A	13.
All containers needing preservation have been checked. All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A ☒Yes ☐No ☐N/A	For each sample, added 1ml HNO_3 to one AGHU. Initial pH ≈6.0; final pH ≈1.0 14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed: JW Lot # of added preservative: 12513-37-10
Trip Blank present: Pace Trip Blank lot # (if purchased): Covered	☒Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State: KS

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Trade Date/Time: 11/6

Comments/ Resolution: pH and Total Blank resolved

Project Manager Review: [illegible] Date: 11/6/12

F-KS-C-003-Rev.7, 04December2012

Burns & McDonnell SINCE 1898

021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LORET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No:
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KDHE NEODESHA

Group or SWMU Name	Sample Point	Sample Designator	Sample Event Round	Sample Event Year	Sample Depth (in feet) From	Sample Depth (in feet) To	Sample Collected Date	Sample Collected Time	Matrix Liquid	Matrix Solid	Matrix Gas	Number of Containers	VOC 8260 / GRO-OA1	SVOC 8270	RCRA 8-FILTERED	PAH 8270 SIM	OA2	60181971	Remarks
MW-171	GW-01	(2) AG1U (4) AG4U	BP3F 2.9	(3) DG4H			11/3/14	1605	X			10	X	X	X	X	X		FIELD FILTERED
FIELD BLANK-01		↓ ↓	↓	↓			11/3/14	1617	X			10	X	X	X	X	X		FIELD FILTERED
TB-01		(2) DG4H					11/3/14	—	X			2	X						
MW-152	GW-01	(2) AG1U (4) AG4U	BP3F 2.0	(3) DG4H			11/4/14	0833	X			10	X	X	X	X	X	X	FIELD FILTERED

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. Date/Time 11/4/14 1530

Received By (signature): Date/Time 11/5 0815

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 2.2 °C

Relinquished By (signature): 2. Date/Time

Received By (signature): Date/Time

Laboratory Comments:

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_05-NOV-2014 08:15 Client SDG: 6018197
Lab Smp Id: 60181971001 Client Smp ID: MW-171/GW-01
Operator : PRG Sample Date: 03-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:05-NOV-2014 08:15
Analysis Type: VOA Level: LOW
Inj Date: 10-NOV-2014 15:47

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 78-78-4	Butane, 2-methyl-	1.241	300	NJ
2. 4806-61-5	Cyclobutane, ethyl-	2.518	190	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 60181971002
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 06-NOV-2014 18:52

Client SDG: SDGa04284

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 60181971003
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 06-NOV-2014 18:08

Client SDG: SDGa04284

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 60181971004X50
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 06-NOV-2014 21:20

Client SDG: SDGa04284

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	78-78-4	Butane, 2-methyl-	1.214	50	NJ
2.	109-66-0	Pentane	1.330	41	NJ
3.	107-83-5	Pentane, 2-methyl-	1.802	38	NJ
4.	4806-61-5	Cyclobutane, ethyl-	2.539	31	NJ
5.	611-14-3	Benzene, 1-ethyl-2-methyl-	6.371	350	NJ
6.	611-14-3	Benzene, 1-ethyl-2-methyl-	6.567	100	NJ
7.	496-11-7	Indane	7.107	78	NJ
8.	25155-15-1	Benzene, methyl(1-methyleth	7.371	16	NJ
9.	933-98-2	Benzene, 1-ethyl-2,3-dimeth	7.423	28	NJ
10.	824-22-6	1H-Indene, 2,3-dihydro-4-me	8.021	18	NJ

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1476379
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-NOV-2014 12:11

Client SDG: 111014a.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1474143
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 06-NOV-2014 17:39

Client SDG: 60MSV8-110614a
Client Smp ID: MB
Sample Date:
Sample Point:
Date Received:06-NOV-2014 11:53
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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November 21, 2014

Trevor Gustafson
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

RE: Project: KDHE NEODESHA
Pace Project No.: 60181979

Dear Trevor Gustafson:
Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: TREVOR GUSTAFSON, BURNS & MCDONNELL

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CERTIFICATIONS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: KDHE NEODESHA
Pace Project No.: 60181979

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60181979001	**MW-155/GW-01**	Water	11/04/14 12:55	11/05/14 08:15
60181979002	**DUP-01**	Water	11/04/14 08:00	11/05/14 08:15
60181979003	**MW-151/GW-01**	Water	11/04/14 14:49	11/05/14 08:15
60181979004	**TB-03**	Water		11/05/14 08:15

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60181979

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60181979001	**MW-155/GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	5
		SM 4500-H+B	JML	1
60181979002	**DUP-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	5
		SM 4500-H+B	JML	1
60181979003	**MW-151/GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	EAK	5
		SM 4500-H+B	JML	1
60181979004	**TB-03**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	5

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Date: November 21, 2014

A library scan was performed for the volatiles method EPA 8260 and the Tentatively Identified Compound reports are included per each sample. The compound Isopropanol was not identified in the search.

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: November 21, 2014

General Information:
3 samples were analyzed for OA2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H2: Extraction or preparation conducted outside EPA method holding time.
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)
- MW-155/GW-01 (Lab ID: 60181979001)

Sample Preparation:
The samples were prepared in accordance with OA2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: OEXT/47005

B: Analyte was detected in the associated method blank.
- BLANK for HBN 362458 [OEXT/470 (Lab ID: 1473887)
  - TEH as Diesel No.2

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/47005

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: OEXT/47087

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: November 21, 2014

Sample Comments:

The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

- MW-155/GW-01 (Lab ID: 60181979001)
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)

Analyte Comments:

QC Batch: OEXT/47005

1e: The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to late motor oil range. Quantitation achieved using diesel fuel as a reference standard.

- DUP-01 (Lab ID: 60181979002)
  - TEH as Diesel No.2
- MW-151/GW-01 (Lab ID: 60181979003)
  - TEH as Diesel No.2
- MW-155/GW-01 (Lab ID: 60181979001)
  - TEH as Diesel No.2

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Burns and McDonnell_BP
Date: November 21, 2014

General Information:
3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

- MW-155/GW-01 (Lab ID: 60181979001)
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: Burns and McDonnell_BP
Date: November 21, 2014

General Information:
3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

- MW-155/GW-01 (Lab ID: 60181979001)
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Method: **EPA 7470**
Description: 7470 Mercury
Client: Burns and McDonnell_BP
Date: November 21, 2014

General Information:
3 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

- MW-155/GW-01 (Lab ID: 60181979001)
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: Burns and McDonnell_BP
Date: November 21, 2014

General Information:
3 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/9033

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60181930003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1476534)
  - Mercury, Dissolved
- MSD (Lab ID: 1476535)
  - Mercury, Dissolved

Additional Comments:

Sample Comments:

The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

- MW-155/GW-01 (Lab ID: 60181979001)
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Burns and McDonnell_BP
Date: November 21, 2014

General Information:
3 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

- MW-155/GW-01 (Lab ID: 60181979001)
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: Burns and McDonnell_BP
Date: November 21, 2014

General Information:
3 samples were analyzed for EPA 8270C by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/47004

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Sample Comments:

The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

- MW-155/GW-01 (Lab ID: 60181979001)
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Burns and McDonnell_BP
Date: November 21, 2014

General Information:
4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65590

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/65646

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Sample Comments:

The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

- MW-155/GW-01 (Lab ID: 60181979001)
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Method: **EPA 8260/OA1**
Description: 8260/OA1 UST, Water
Client: Burns and McDonnell_BP
Date: November 21, 2014

General Information:
4 samples were analyzed for EPA 8260/OA1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65670

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/65755

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Sample Comments:

The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

- MW-155/GW-01 (Lab ID: 60181979001)
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Burns and McDonnell_BP
Date: November 21, 2014

General Information:
3 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)
- MW-155/GW-01 (Lab ID: 60181979001)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.
- MW-155/GW-01 (Lab ID: 60181979001)
- DUP-01 (Lab ID: 60181979002)
- MW-151/GW-01 (Lab ID: 60181979003)

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: MW-155/GW-01 **Lab ID: 60181979001** Collected: 11/04/14 12:55 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:45	68334-30-5	
Diesel Fuel	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:58	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:45	68553-00-4	
Fuel Oil	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:58	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:45	94114-58-6	
Jet Fuel	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:58	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:45	8008-20-6	
Kerosene	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:58	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:45	8030-30-6	
Mineral Spirits	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:58	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:45	64742-65-0	
Motor Oil	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:58	64742-65-0	H2
TEH as Diesel No.2	**0.46**	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:45		1e,B
TEH as Diesel No.2	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 21:58		H2
Surrogates								
p-Terphenyl (S)	85	%	29-122	1	11/06/14 00:00	11/07/14 14:45	92-94-4	
p-Terphenyl (S)	86	%	29-122	1	11/12/14 00:00	11/13/14 21:58	92-94-4	
n-Tetracosane (S)	63	%	20-120	1	11/06/14 00:00	11/07/14 14:45	646-31-1	
n-Tetracosane (S)	78	%	20-120	1	11/12/14 00:00	11/13/14 21:58	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:38	7440-38-2	
Barium	**85.3**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:38	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:38	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:38	7440-47-3	
Lead	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:38	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/08/14 17:15	11/12/14 11:38	7782-49-2	
Silver	ND	ug/L	7.0	1	11/08/14 17:15	11/12/14 11:38	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:13	7440-38-2	
Barium, Dissolved	**67.0**	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:13	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 14:13	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:13	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:13	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 14:13	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 14:13	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 11:52	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 12:17	7439-97-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: MW-155/GW-01 **Lab ID: 60181979001** Collected: 11/04/14 12:55 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	106-46-7	
Diethylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	105-67-9	
Dimethylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	84-74-2	
2,4-Dinitrophenol	ND	ug/L	51.5	1	11/07/14 00:00	11/13/14 01:21	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21		
4-Nitrophenol	ND	ug/L	51.5	1	11/07/14 00:00	11/13/14 01:21	100-02-7	
Phenol	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	108-95-2	
Pyridine	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	110-86-1	
Quinoline	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:21	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	52	%	10-135	1	11/07/14 00:00	11/13/14 01:21	4165-60-0	
2-Fluorobiphenyl (S)	53	%	19-124	1	11/07/14 00:00	11/13/14 01:21	321-60-8	
Terphenyl-d14 (S)	61	%	24-131	1	11/07/14 00:00	11/13/14 01:21	1718-51-0	
Phenol-d6 (S)	23	%	10-120	1	11/07/14 00:00	11/13/14 01:21	13127-88-3	
2-Fluorophenol (S)	33	%	13-120	1	11/07/14 00:00	11/13/14 01:21	367-12-4	
2,4,6-Tribromophenol (S)	67	%	29-121	1	11/07/14 00:00	11/13/14 01:21	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.50	1	11/06/14 00:00	11/07/14 17:52	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.50	1	11/06/14 00:00	11/07/14 17:52	91-57-6	
Naphthalene	**0.54**	ug/L	0.50	1	11/06/14 00:00	11/07/14 17:52	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/06/14 00:00	11/07/14 17:52	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 17:52	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	90	%	36-120	1	11/06/14 00:00	11/07/14 17:52	321-60-8	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: MW-155/GW-01 **Lab ID: 60181979001** Collected: 11/04/14 12:55 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Surrogates								
Terphenyl-d14 (S)	97	%	29-134	1	11/06/14 00:00	11/07/14 17:52	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/06/14 19:51	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/06/14 19:51	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/06/14 19:51	994-05-8	
Benzene	**1.1**	ug/L	1.0	1		11/06/14 19:51	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/14 19:51	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/14 19:51	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/06/14 19:51	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/14 19:51	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/14 19:51	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/06/14 19:51	75-15-0	
Chlorobenzene	**1.1**	ug/L	1.0	1		11/06/14 19:51	108-90-7	
Chloroethane	**1.5**	ug/L	1.0	1		11/06/14 19:51	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/14 19:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/14 19:51	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/06/14 19:51	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/14 19:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/14 19:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/06/14 19:51	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/06/14 19:51	110-57-6	
1,1-Dichloroethane	**6.6**	ug/L	1.0	1		11/06/14 19:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/14 19:51	107-06-2	
1,2-Dichloroethene (Total)	**201**	ug/L	5.0	5		11/10/14 16:03	540-59-0	
1,1-Dichloroethene	**1.8**	ug/L	1.0	1		11/06/14 19:51	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/14 19:51	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/06/14 19:51	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/06/14 19:51	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/06/14 19:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 19:51	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/06/14 19:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/14 19:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/14 19:51	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/06/14 19:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/14 19:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 19:51	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/14 19:51	103-65-1	
Styrene	ND	ug/L	1.0	1		11/06/14 19:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/14 19:51	79-34-5	
Tetrachloroethene	**18.6**	ug/L	1.0	1		11/06/14 19:51	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/14 19:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/14 19:51	71-55-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: MW-155/GW-01 **Lab ID: 60181979001** Collected: 11/04/14 12:55 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Trichloroethene	**19.0**	ug/L	1.0	1		11/06/14 19:51	79-01-6	
Trichlorofluoromethane	**10.6**	ug/L	1.0	1		11/06/14 19:51	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 19:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 19:51	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/06/14 19:51	108-05-4	
Vinyl chloride	**52.4**	ug/L	1.0	1		11/06/14 19:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/14 19:51	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		11/06/14 19:51	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120	1		11/06/14 19:51	17060-07-0	
Toluene-d8 (S)	88	%	80-120	1		11/06/14 19:51	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/06/14 19:51		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	2.5	5		11/10/14 16:03		
Surrogates								
Toluene-d8 (S)	100	%	80-120	5		11/10/14 16:03	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	5		11/10/14 16:03	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	5		11/10/14 16:03	17060-07-0	
Preservation pH	**1.0**		0.10	5		11/10/14 16:03		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.8**	Std. Units	0.10	1		11/06/14 13:15		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: DUP-01 **Lab ID: 60181979002** Collected: 11/04/14 08:00 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:53	68334-30-5	
Diesel Fuel	ND	mg/L	1.6	1	11/12/14 00:00	11/13/14 22:06	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:53	68553-00-4	
Fuel Oil	ND	mg/L	1.6	1	11/12/14 00:00	11/13/14 22:06	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:53	94114-58-6	
Jet Fuel	ND	mg/L	1.6	1	11/12/14 00:00	11/13/14 22:06	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:53	8008-20-6	
Kerosene	ND	mg/L	1.6	1	11/12/14 00:00	11/13/14 22:06	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:53	8030-30-6	
Mineral Spirits	ND	mg/L	1.6	1	11/12/14 00:00	11/13/14 22:06	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:53	64742-65-0	
Motor Oil	ND	mg/L	1.6	1	11/12/14 00:00	11/13/14 22:06	64742-65-0	H2
TEH as Diesel No.2	**0.57**	mg/L	0.40	1	11/06/14 00:00	11/07/14 14:53		1e,B
TEH as Diesel No.2	ND	mg/L	1.6	1	11/12/14 00:00	11/13/14 22:06		H2
Surrogates								
p-Terphenyl (S)	78	%	29-122	1	11/12/14 00:00	11/13/14 22:06	92-94-4	
p-Terphenyl (S)	83	%	29-122	1	11/06/14 00:00	11/07/14 14:53	92-94-4	
n-Tetracosane (S)	73	%	20-120	1	11/06/14 00:00	11/07/14 14:53	646-31-1	
n-Tetracosane (S)	72	%	20-120	1	11/12/14 00:00	11/13/14 22:06	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:40	7440-38-2	
Barium	**76.3**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:40	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:40	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:40	7440-47-3	
Lead	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:40	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/08/14 17:15	11/12/14 11:40	7782-49-2	
Silver	ND	ug/L	7.0	1	11/08/14 17:15	11/12/14 11:40	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:16	7440-38-2	
Barium, Dissolved	**65.8**	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:16	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 14:16	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:16	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:16	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 14:16	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 14:16	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 11:54	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 12:19	7439-97-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: DUP-01 **Lab ID: 60181979002** Collected: 11/04/14 08:00 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	106-46-7	
Diethylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	105-67-9	
Dimethylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	84-74-2	
2,4-Dinitrophenol	ND	ug/L	51.5	1	11/07/14 00:00	11/13/14 01:42	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42		
4-Nitrophenol	ND	ug/L	51.5	1	11/07/14 00:00	11/13/14 01:42	100-02-7	
Phenol	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	108-95-2	
Pyridine	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	110-86-1	
Quinoline	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 01:42	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	64	%	10-135	1	11/07/14 00:00	11/13/14 01:42	4165-60-0	
2-Fluorobiphenyl (S)	72	%	19-124	1	11/07/14 00:00	11/13/14 01:42	321-60-8	
Terphenyl-d14 (S)	88	%	24-131	1	11/07/14 00:00	11/13/14 01:42	1718-51-0	
Phenol-d6 (S)	28	%	10-120	1	11/07/14 00:00	11/13/14 01:42	13127-88-3	
2-Fluorophenol (S)	40	%	13-120	1	11/07/14 00:00	11/13/14 01:42	367-12-4	
2,4,6-Tribromophenol (S)	83	%	29-121	1	11/07/14 00:00	11/13/14 01:42	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.50	1	11/06/14 00:00	11/07/14 18:13	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.50	1	11/06/14 00:00	11/07/14 18:13	91-57-6	
Naphthalene	ND	ug/L	0.50	1	11/06/14 00:00	11/07/14 18:13	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/06/14 00:00	11/07/14 18:13	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/06/14 00:00	11/07/14 18:13	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	70	%	36-120	1	11/06/14 00:00	11/07/14 18:13	321-60-8	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: DUP-01 **Lab ID: 60181979002** Collected: 11/04/14 08:00 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Surrogates								
Terphenyl-d14 (S)	77	%	29-134	1	11/06/14 00:00	11/07/14 18:13	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/06/14 20:06	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/06/14 20:06	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/06/14 20:06	994-05-8	
Benzene	**1.1**	ug/L	1.0	1		11/06/14 20:06	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/06/14 20:06	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/06/14 20:06	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/06/14 20:06	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/06/14 20:06	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/06/14 20:06	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/06/14 20:06	75-15-0	
Chlorobenzene	**1.2**	ug/L	1.0	1		11/06/14 20:06	108-90-7	
Chloroethane	**1.2**	ug/L	1.0	1		11/06/14 20:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/06/14 20:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/14 20:06	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/06/14 20:06	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/06/14 20:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/06/14 20:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/06/14 20:06	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/06/14 20:06	110-57-6	
1,1-Dichloroethane	**6.8**	ug/L	1.0	1		11/06/14 20:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/06/14 20:06	107-06-2	
1,2-Dichloroethene (Total)	**197**	ug/L	5.0	5		11/10/14 16:19	540-59-0	
1,1-Dichloroethene	**1.9**	ug/L	1.0	1		11/06/14 20:06	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/06/14 20:06	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/06/14 20:06	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/06/14 20:06	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/06/14 20:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 20:06	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/06/14 20:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/06/14 20:06	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/06/14 20:06	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/06/14 20:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/06/14 20:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/06/14 20:06	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/06/14 20:06	103-65-1	
Styrene	ND	ug/L	1.0	1		11/06/14 20:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/06/14 20:06	79-34-5	
Tetrachloroethene	**20.2**	ug/L	1.0	1		11/06/14 20:06	127-18-4	
Toluene	ND	ug/L	1.0	1		11/06/14 20:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/06/14 20:06	71-55-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: DUP-01 **Lab ID: 60181979002** Collected: 11/04/14 08:00 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Trichloroethene	**19.8**	ug/L	1.0	1		11/06/14 20:06	79-01-6	
Trichlorofluoromethane	**11.2**	ug/L	1.0	1		11/06/14 20:06	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 20:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/06/14 20:06	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/06/14 20:06	108-05-4	
Vinyl chloride	**53.0**	ug/L	1.0	1		11/06/14 20:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/06/14 20:06	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		11/06/14 20:06	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		11/06/14 20:06	17060-07-0	
Toluene-d8 (S)	91	%	80-120	1		11/06/14 20:06	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/06/14 20:06		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	2.5	5		11/10/14 16:19		
Surrogates								
Toluene-d8 (S)	100	%	80-120	5		11/10/14 16:19	2037-26-5	
4-Bromofluorobenzene (S)	97	%	80-120	5		11/10/14 16:19	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	5		11/10/14 16:19	17060-07-0	
Preservation pH	**1.0**		0.10	5		11/10/14 16:19		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		11/06/14 13:15		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: MW-151/GW-01 **Lab ID: 60181979003** Collected: 11/04/14 14:49 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 15:00	68334-30-5	
Diesel Fuel	**1.8**	mg/L	1.2	1	11/12/14 00:00	11/13/14 22:14	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 15:00	68553-00-4	
Fuel Oil	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 22:14	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 15:00	94114-58-6	
Jet Fuel	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 22:14	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 15:00	8008-20-6	
Kerosene	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 22:14	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 15:00	8030-30-6	
Mineral Spirits	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 22:14	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/06/14 00:00	11/07/14 15:00	64742-65-0	
Motor Oil	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 22:14	64742-65-0	H2
TEH as Diesel No.2	**2.2**	mg/L	0.40	1	11/06/14 00:00	11/07/14 15:00		1e,B
TEH as Diesel No.2	ND	mg/L	1.2	1	11/12/14 00:00	11/13/14 22:14		H2
Surrogates								
p-Terphenyl (S)	81	%	29-122	1	11/12/14 00:00	11/13/14 22:14	92-94-4	
p-Terphenyl (S)	91	%	29-122	1	11/06/14 00:00	11/07/14 15:00	92-94-4	
n-Tetracosane (S)	78	%	20-120	1	11/06/14 00:00	11/07/14 15:00	646-31-1	
n-Tetracosane (S)	76	%	20-120	1	11/12/14 00:00	11/13/14 22:14	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**39.2**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:43	7440-38-2	
Barium	**328**	ug/L	10.0	1	11/08/14 17:15	11/12/14 11:43	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:43	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:43	7440-47-3	
Lead	ND	ug/L	5.0	1	11/08/14 17:15	11/12/14 11:43	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/08/14 17:15	11/12/14 11:43	7782-49-2	
Silver	ND	ug/L	7.0	1	11/08/14 17:15	11/12/14 11:43	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**34.9**	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:20	7440-38-2	
Barium, Dissolved	**308**	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:20	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 14:20	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:20	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:20	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 14:20	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 14:20	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 11:56	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 12:26	7439-97-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: MW-151/GW-01 **Lab ID: 60181979003** Collected: 11/04/14 14:49 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	106-46-7	
Diethylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	105-67-9	
Dimethylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	84-74-2	
2,4-Dinitrophenol	ND	ug/L	51.5	1	11/07/14 00:00	11/13/14 02:02	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02		
4-Nitrophenol	ND	ug/L	51.5	1	11/07/14 00:00	11/13/14 02:02	100-02-7	
Phenol	**29.8**	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	108-95-2	
Pyridine	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	110-86-1	
Quinoline	ND	ug/L	10.3	1	11/07/14 00:00	11/13/14 02:02	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	74	%	10-135	1	11/07/14 00:00	11/13/14 02:02	4165-60-0	
2-Fluorobiphenyl (S)	68	%	19-124	1	11/07/14 00:00	11/13/14 02:02	321-60-8	
Terphenyl-d14 (S)	84	%	24-131	1	11/07/14 00:00	11/13/14 02:02	1718-51-0	
Phenol-d6 (S)	28	%	10-120	1	11/07/14 00:00	11/13/14 02:02	13127-88-3	
2-Fluorophenol (S)	40	%	13-120	1	11/07/14 00:00	11/13/14 02:02	367-12-4	
2,4,6-Tribromophenol (S)	96	%	29-121	1	11/07/14 00:00	11/13/14 02:02	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.54**	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	83-32-9	
Acenaphthylene	**0.11**	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	208-96-8	
Anthracene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	207-08-9	
Chrysene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	53-70-3	
Fluoranthene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	206-44-0	
Fluorene	**0.31**	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	193-39-5	
1-Methylnaphthalene	**57.7**	ug/L	10.5	20	11/06/14 00:00	11/10/14 17:10	90-12-0	
2-Methylnaphthalene	**95.7**	ug/L	10.5	20	11/06/14 00:00	11/10/14 17:10	91-57-6	
Naphthalene	**293**	ug/L	10.5	20	11/06/14 00:00	11/10/14 17:10	91-20-3	
Phenanthrene	ND	ug/L	0.53	1	11/06/14 00:00	11/07/14 18:34	85-01-8	
Pyrene	ND	ug/L	0.11	1	11/06/14 00:00	11/07/14 18:34	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	85	%	36-120	1	11/06/14 00:00	11/07/14 18:34	321-60-8	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: MW-151/GW-01 **Lab ID: 60181979003** Collected: 11/04/14 14:49 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Surrogates								
Terphenyl-d14 (S)	97	%	29-134	1	11/06/14 00:00	11/07/14 18:34	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	500	50		11/06/14 21:05	67-64-1	
Benzene	**8930**	ug/L	50.0	50		11/06/14 21:05	71-43-2	
Bromodichloromethane	ND	ug/L	50.0	50		11/06/14 21:05	75-27-4	
2-Butanone (MEK)	ND	ug/L	500	50		11/06/14 21:05	78-93-3	
n-Butylbenzene	ND	ug/L	50.0	50		11/06/14 21:05	104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	50		11/06/14 21:05	135-98-8	
tert-Butyl Alcohol	ND	ug/L	500	50		11/06/14 21:05	75-65-0	
Carbon disulfide	ND	ug/L	250	50		11/06/14 21:05	75-15-0	
Chlorobenzene	ND	ug/L	50.0	50		11/06/14 21:05	108-90-7	
Chloroethane	ND	ug/L	50.0	50		11/06/14 21:05	75-00-3	
Chloroform	ND	ug/L	50.0	50		11/06/14 21:05	67-66-3	
Chloromethane	ND	ug/L	50.0	50		11/06/14 21:05	74-87-3	
4-Chlorotoluene	ND	ug/L	50.0	50		11/06/14 21:05	106-43-4	
Dibromochloromethane	ND	ug/L	50.0	50		11/06/14 21:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		11/06/14 21:05	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		11/06/14 21:05	74-95-3	
1,1-Dichloroethane	ND	ug/L	50.0	50		11/06/14 21:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		11/06/14 21:05	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	50.0	50		11/06/14 21:05	540-59-0	
1,1-Dichloroethene	ND	ug/L	50.0	50		11/06/14 21:05	75-35-4	
1,2-Dichloropropane	ND	ug/L	50.0	50		11/06/14 21:05	78-87-5	
Ethylbenzene	**95.4**	ug/L	50.0	50		11/06/14 21:05	100-41-4	
2-Hexanone	ND	ug/L	500	50		11/06/14 21:05	591-78-6	
Isopropylbenzene (Cumene)	**213**	ug/L	50.0	50		11/06/14 21:05	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		11/06/14 21:05	99-87-6	
Methylene chloride	ND	ug/L	50.0	50		11/06/14 21:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	50		11/06/14 21:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		11/06/14 21:05	1634-04-4	
n-Propylbenzene	**346**	ug/L	50.0	50		11/06/14 21:05	103-65-1	
Styrene	ND	ug/L	50.0	50		11/06/14 21:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		11/06/14 21:05	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	50		11/06/14 21:05	127-18-4	
Toluene	ND	ug/L	50.0	50		11/06/14 21:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		11/06/14 21:05	71-55-6	
Trichloroethene	ND	ug/L	50.0	50		11/06/14 21:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		11/06/14 21:05	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	50.0	50		11/06/14 21:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	50		11/06/14 21:05	108-67-8	
Vinyl chloride	ND	ug/L	50.0	50		11/06/14 21:05	75-01-4	
Xylene (Total)	ND	ug/L	150	50		11/06/14 21:05	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: MW-151/GW-01 **Lab ID: 60181979003** Collected: 11/04/14 14:49 Received: 11/05/14 08:15 Matrix: Water

Comments: • The initial extraction for method OA2 contained target analyte presence above the reporting limit. This sample is re-extracted for confirmation of results reported for the OA2 constituent in the original sample analysis. The re-extraction is outside of method hold time.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,4-Dioxane (p-Dioxane)	ND	ug/L	5000	50		11/06/14 21:05	123-91-1	
Vinyl acetate	ND	ug/L	500	50		11/06/14 21:05	108-05-4	
Acrylonitrile	ND	ug/L	1000	50		11/06/14 21:05	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	250	50		11/06/14 21:05	110-57-6	
tert-Amylmethyl ether	ND	ug/L	50.0	50		11/06/14 21:05	994-05-8	
Diisopropyl ether	ND	ug/L	50.0	50		11/06/14 21:05	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	50.0	50		11/06/14 21:05	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	50		11/06/14 21:05	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	80-120	50		11/06/14 21:05	17060-07-0	
Toluene-d8 (S)	90	%	80-120	50		11/06/14 21:05	2037-26-5	
Preservation pH	**1.0**		0.10	50		11/06/14 21:05		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	25.0	50		11/14/14 14:46		
Surrogates								
Toluene-d8 (S)	99	%	80-120	50		11/14/14 14:46	2037-26-5	
4-Bromofluorobenzene (S)	97	%	80-120	50		11/14/14 14:46	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120	50		11/14/14 14:46	17060-07-0	
Preservation pH	**1.0**		0.10	50		11/14/14 14:46		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.9**	Std. Units	0.10	1		11/06/14 13:15		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: TB-03 **Lab ID: 60181979004** Collected: Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/10/14 12:35	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/10/14 12:35	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/10/14 12:35	994-05-8	
Benzene	ND	ug/L	1.0	1		11/10/14 12:35	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/10/14 12:35	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/10/14 12:35	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/10/14 12:35	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/10/14 12:35	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/10/14 12:35	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/10/14 12:35	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/10/14 12:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/10/14 12:35	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/10/14 12:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/10/14 12:35	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/10/14 12:35	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/10/14 12:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/10/14 12:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/10/14 12:35	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/10/14 12:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/10/14 12:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/10/14 12:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/10/14 12:35	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/10/14 12:35	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/10/14 12:35	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/10/14 12:35	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/10/14 12:35	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/10/14 12:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/10/14 12:35	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/10/14 12:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/10/14 12:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/10/14 12:35	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/10/14 12:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/10/14 12:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/10/14 12:35	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/10/14 12:35	103-65-1	
Styrene	ND	ug/L	1.0	1		11/10/14 12:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/10/14 12:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/10/14 12:35	127-18-4	
Toluene	ND	ug/L	1.0	1		11/10/14 12:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/10/14 12:35	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/10/14 12:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/10/14 12:35	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/10/14 12:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/10/14 12:35	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/10/14 12:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/10/14 12:35	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/10/14 12:35	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60181979

Sample: TB-03 **Lab ID: 60181979004** Collected: Received: 11/05/14 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		11/10/14 12:35	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/10/14 12:35	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/10/14 12:35	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/10/14 12:35		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/10/14 12:35		
Surrogates								
Toluene-d8 (S)	99	%	80-120	1		11/10/14 12:35	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		11/10/14 12:35	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/10/14 12:35	17060-07-0	
Preservation pH	**1.0**		0.10	1		11/10/14 12:35		

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: MERP/9026 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 60181979001, 60181979002, 60181979003

METHOD BLANK: 1475826 Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/10/14 11:25	

LABORATORY CONTROL SAMPLE: 1475827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1475828 1475829

Parameter	Units	60181930002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	5.2	100	104	75-125	4	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: MERP/9033 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 60181979001, 60181979002, 60181979003

METHOD BLANK: 1476532 | Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	11/12/14 11:50	

LABORATORY CONTROL SAMPLE: 1476533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1476534 1476535

Parameter	Units	60181930003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	2.5	2.5	49	50	75-125	2	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: MPRP/29708 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 60181979001, 60181979002, 60181979003

METHOD BLANK: 1475990 Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	11/12/14 11:11	
Barium	ug/L	ND	10.0	11/12/14 11:11	
Cadmium	ug/L	ND	5.0	11/12/14 11:11	
Chromium	ug/L	ND	5.0	11/12/14 11:11	
Lead	ug/L	ND	5.0	11/12/14 11:11	
Selenium	ug/L	ND	15.0	11/12/14 11:11	
Silver	ug/L	ND	7.0	11/12/14 11:11	

LABORATORY CONTROL SAMPLE: 1475991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	1050	105	80-120	
Barium	ug/L	1000	1060	106	80-120	
Cadmium	ug/L	1000	1040	104	80-120	
Chromium	ug/L	1000	999	100	80-120	
Lead	ug/L	1000	1040	104	80-120	
Selenium	ug/L	1000	1050	105	80-120	
Silver	ug/L	500	502	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1475992 1475993

Parameter	Units	60181930001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	33.1	1000	1000	1090	1100	105	107	75-125	1	20	
Barium	ug/L	500	1000	1000	1550	1580	105	108	75-125	2	20	
Cadmium	ug/L	ND	1000	1000	1040	1040	104	104	75-125	0	20	
Chromium	ug/L	ND	1000	1000	949	962	95	96	75-125	1	20	
Lead	ug/L	ND	1000	1000	1000	1010	100	101	75-125	1	20	
Selenium	ug/L	ND	1000	1000	1030	1040	103	104	75-125	0	20	
Silver	ug/L	ND	500	500	491	495	98	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: MPRP/29780 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60181979001, 60181979002, 60181979003

METHOD BLANK: 1478079 Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	10.0	11/14/14 13:28	
Barium, Dissolved	ug/L	ND	10.0	11/14/14 13:28	
Cadmium, Dissolved	ug/L	ND	1.0	11/14/14 13:28	
Chromium, Dissolved	ug/L	ND	5.0	11/14/14 13:28	
Lead, Dissolved	ug/L	ND	5.0	11/14/14 13:28	
Selenium, Dissolved	ug/L	ND	15.0	11/14/14 13:28	
Silver, Dissolved	ug/L	ND	7.0	11/14/14 13:28	

LABORATORY CONTROL SAMPLE: 1478080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	960	96	80-120	
Barium, Dissolved	ug/L	1000	1000	100	80-120	
Cadmium, Dissolved	ug/L	1000	970	97	80-120	
Chromium, Dissolved	ug/L	1000	1010	101	80-120	
Lead, Dissolved	ug/L	1000	972	97	80-120	
Selenium, Dissolved	ug/L	1000	970	97	80-120	
Silver, Dissolved	ug/L	500	496	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1478081 1478082

Parameter	Units	60181930001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	32.4	1000	1000	1010	1000	98	97	75-125	1	20	
Barium, Dissolved	ug/L	551	1000	1000	1560	1550	101	100	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	973	966	97	97	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	1000	993	100	99	75-125	1	20	
Lead, Dissolved	ug/L	ND	1000	1000	952	944	95	94	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	976	974	97	97	75-125	0	20	
Silver, Dissolved	ug/L	ND	500	500	497	493	99	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: MSV/65590 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60181979001, 60181979002, 60181979003

METHOD BLANK: 1474143 Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,1-Dichloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,1-Dichloroethene	ug/L	ND	1.0	11/06/14 17:39	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dichloroethane	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/06/14 17:39	
1,2-Dichloropropane	ug/L	ND	1.0	11/06/14 17:39	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/06/14 17:39	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/06/14 17:39	
2-Butanone (MEK)	ug/L	ND	10.0	11/06/14 17:39	
2-Hexanone	ug/L	ND	10.0	11/06/14 17:39	
4-Chlorotoluene	ug/L	ND	1.0	11/06/14 17:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/06/14 17:39	
Acetone	ug/L	ND	10.0	11/06/14 17:39	
Acrylonitrile	ug/L	ND	20.0	11/06/14 17:39	
Benzene	ug/L	ND	1.0	11/06/14 17:39	
Bromodichloromethane	ug/L	ND	1.0	11/06/14 17:39	
Carbon disulfide	ug/L	ND	5.0	11/06/14 17:39	
Chlorobenzene	ug/L	ND	1.0	11/06/14 17:39	
Chloroethane	ug/L	ND	1.0	11/06/14 17:39	
Chloroform	ug/L	ND	1.0	11/06/14 17:39	
Chloromethane	ug/L	ND	1.0	11/06/14 17:39	
Dibromochloromethane	ug/L	ND	1.0	11/06/14 17:39	
Dibromomethane	ug/L	ND	1.0	11/06/14 17:39	
Diisopropyl ether	ug/L	ND	1.0	11/06/14 17:39	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/06/14 17:39	
Ethylbenzene	ug/L	ND	1.0	11/06/14 17:39	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/06/14 17:39	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/06/14 17:39	
Methylene chloride	ug/L	ND	1.0	11/06/14 17:39	
n-Butylbenzene	ug/L	ND	1.0	11/06/14 17:39	
n-Propylbenzene	ug/L	ND	1.0	11/06/14 17:39	
p-Isopropyltoluene	ug/L	ND	1.0	11/06/14 17:39	
sec-Butylbenzene	ug/L	ND	1.0	11/06/14 17:39	
Styrene	ug/L	ND	1.0	11/06/14 17:39	
tert-Amylmethyl ether	ug/L	ND	1.0	11/06/14 17:39	
tert-Butyl Alcohol	ug/L	ND	10.0	11/06/14 17:39	
Tetrachloroethene	ug/L	ND	1.0	11/06/14 17:39	
Toluene	ug/L	ND	1.0	11/06/14 17:39	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

METHOD BLANK: 1474143 Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/06/14 17:39	
Trichloroethene	ug/L	ND	1.0	11/06/14 17:39	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/14 17:39	
Vinyl acetate	ug/L	ND	10.0	11/06/14 17:39	
Vinyl chloride	ug/L	ND	1.0	11/06/14 17:39	
Xylene (Total)	ug/L	ND	3.0	11/06/14 17:39	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/06/14 17:39	
4-Bromofluorobenzene (S)	%	103	80-120	11/06/14 17:39	
Toluene-d8 (S)	%	87	80-120	11/06/14 17:39	

LABORATORY CONTROL SAMPLE: 1474144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.2	111	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	17.0	85	73-124	
1,1-Dichloroethane	ug/L	20	22.5	113	77-120	
1,1-Dichloroethene	ug/L	20	23.1	115	78-126	
1,2,4-Trimethylbenzene	ug/L	20	18.4	92	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	20.0	100	80-127	
1,2-Dichloroethane	ug/L	20	21.0	105	77-123	
1,2-Dichloroethene (Total)	ug/L	40	43.8	110	80-120	
1,2-Dichloropropane	ug/L	20	21.5	107	80-121	
1,3,5-Trimethylbenzene	ug/L	20	18.6	93	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	78.3J	78	44-160	
2-Butanone (MEK)	ug/L	100	105	105	52-145	
2-Hexanone	ug/L	100	87.3	87	57-139	
4-Chlorotoluene	ug/L	20	18.0	90	80-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	71-131	
Acetone	ug/L	100	102	102	32-155	
Acrylonitrile	ug/L	200	219	110	75-125	
Benzene	ug/L	20	23.0	115	80-120	
Bromodichloromethane	ug/L	20	22.8	114	80-120	
Carbon disulfide	ug/L	20	24.1	120	65-125	
Chlorobenzene	ug/L	20	21.2	106	80-120	
Chloroethane	ug/L	20	20.8	104	55-137	
Chloroform	ug/L	20	21.8	109	79-120	
Chloromethane	ug/L	20	20.6	103	22-138	
Dibromochloromethane	ug/L	20	19.1	96	80-120	
Dibromomethane	ug/L	20	21.2	106	80-122	
Diisopropyl ether	ug/L	20	21.7	109	70-123	
Ethyl-tert-butyl ether	ug/L	20	21.7	109	73-120	
Ethylbenzene	ug/L	20	19.6	98	80-121	
Isopropylbenzene (Cumene)	ug/L	20	20.8	104	80-136	
Methyl-tert-butyl ether	ug/L	20	21.7	108	74-125	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

LABORATORY CONTROL SAMPLE: 1474144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene chloride	ug/L	20	22.8	114	73-126	
n-Butylbenzene	ug/L	20	17.3	87	83-123	
n-Propylbenzene	ug/L	20	18.0	90	80-122	
p-Isopropyltoluene	ug/L	20	17.6	88	80-124	
sec-Butylbenzene	ug/L	20	17.7	88	80-129	
Styrene	ug/L	20	20.7	103	80-120	
tert-Amylmethyl ether	ug/L	20	21.7	108	74-120	
tert-Butyl Alcohol	ug/L	100	95.0	95	50-139	
Tetrachloroethene	ug/L	20	19.9	99	80-121	
Toluene	ug/L	20	20.2	101	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	16.6	83	59-133	
Trichloroethene	ug/L	20	22.6	113	80-120	
Trichlorofluoromethane	ug/L	20	23.3	116	67-120	
Vinyl acetate	ug/L	20	20.8	104	45-160	
Vinyl chloride	ug/L	20	23.5	117	59-120	
Xylene (Total)	ug/L	60	61.3	102	80-121	
1,2-Dichloroethane-d4 (S)	%			93	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			91	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: MSV/65646 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60181979001, 60181979002, 60181979004

METHOD BLANK: 1476174 Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,1-Dichloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,1-Dichloroethene	ug/L	ND	1.0	11/10/14 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dichloroethane	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/10/14 12:11	
1,2-Dichloropropane	ug/L	ND	1.0	11/10/14 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/10/14 12:11	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/10/14 12:11	
2-Butanone (MEK)	ug/L	ND	10.0	11/10/14 12:11	
2-Hexanone	ug/L	ND	10.0	11/10/14 12:11	
4-Chlorotoluene	ug/L	ND	1.0	11/10/14 12:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/10/14 12:11	
Acetone	ug/L	ND	10.0	11/10/14 12:11	
Acrylonitrile	ug/L	ND	20.0	11/10/14 12:11	
Benzene	ug/L	ND	1.0	11/10/14 12:11	
Bromodichloromethane	ug/L	ND	1.0	11/10/14 12:11	
Carbon disulfide	ug/L	ND	5.0	11/10/14 12:11	
Chlorobenzene	ug/L	ND	1.0	11/10/14 12:11	
Chloroethane	ug/L	ND	1.0	11/10/14 12:11	
Chloroform	ug/L	ND	1.0	11/10/14 12:11	
Chloromethane	ug/L	ND	1.0	11/10/14 12:11	
Dibromochloromethane	ug/L	ND	1.0	11/10/14 12:11	
Dibromomethane	ug/L	ND	1.0	11/10/14 12:11	
Diisopropyl ether	ug/L	ND	1.0	11/10/14 12:11	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/10/14 12:11	
Ethylbenzene	ug/L	ND	1.0	11/10/14 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/10/14 12:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/10/14 12:11	
Methylene chloride	ug/L	ND	1.0	11/10/14 12:11	
n-Butylbenzene	ug/L	ND	1.0	11/10/14 12:11	
n-Propylbenzene	ug/L	ND	1.0	11/10/14 12:11	
p-Isopropyltoluene	ug/L	ND	1.0	11/10/14 12:11	
sec-Butylbenzene	ug/L	ND	1.0	11/10/14 12:11	
Styrene	ug/L	ND	1.0	11/10/14 12:11	
tert-Amylmethyl ether	ug/L	ND	1.0	11/10/14 12:11	
tert-Butyl Alcohol	ug/L	ND	10.0	11/10/14 12:11	
Tetrachloroethene	ug/L	ND	1.0	11/10/14 12:11	
Toluene	ug/L	ND	1.0	11/10/14 12:11	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

METHOD BLANK: 1476174 Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/10/14 12:11	
Trichloroethene	ug/L	ND	1.0	11/10/14 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/10/14 12:11	
Vinyl acetate	ug/L	ND	10.0	11/10/14 12:11	
Vinyl chloride	ug/L	ND	1.0	11/10/14 12:11	
Xylene (Total)	ug/L	ND	3.0	11/10/14 12:11	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/10/14 12:11	
4-Bromofluorobenzene (S)	%	101	80-120	11/10/14 12:11	
Toluene-d8 (S)	%	99	80-120	11/10/14 12:11	

LABORATORY CONTROL SAMPLE: 1476175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	73-124	
1,1-Dichloroethane	ug/L	20	18.6	93	77-120	
1,1-Dichloroethene	ug/L	20	18.3	92	78-126	
1,2,4-Trimethylbenzene	ug/L	20	20.0	100	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	21.1	106	80-127	
1,2-Dichloroethane	ug/L	20	19.4	97	77-123	
1,2-Dichloroethene (Total)	ug/L	40	38.0	95	80-120	
1,2-Dichloropropane	ug/L	20	19.0	95	80-121	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	104	104	44-160	
2-Butanone (MEK)	ug/L	100	92.8	93	52-145	
2-Hexanone	ug/L	100	101	101	57-139	
4-Chlorotoluene	ug/L	20	19.3	97	80-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.5	98	71-131	
Acetone	ug/L	100	96.4	96	32-155	
Acrylonitrile	ug/L	200	204	102	75-125	
Benzene	ug/L	20	18.8	94	80-120	
Bromodichloromethane	ug/L	20	19.8	99	80-120	
Carbon disulfide	ug/L	20	20.7	104	65-125	
Chlorobenzene	ug/L	20	19.7	98	80-120	
Chloroethane	ug/L	20	17.5	88	55-137	
Chloroform	ug/L	20	19.4	97	79-120	
Chloromethane	ug/L	20	18.4	92	22-138	
Dibromochloromethane	ug/L	20	19.9	99	80-120	
Dibromomethane	ug/L	20	20.6	103	80-122	
Diisopropyl ether	ug/L	20	19.3	97	70-123	
Ethyl-tert-butyl ether	ug/L	20	19.4	97	73-120	
Ethylbenzene	ug/L	20	19.7	98	80-121	
Isopropylbenzene (Cumene)	ug/L	20	19.8	99	80-136	
Methyl-tert-butyl ether	ug/L	20	19.4	97	74-125	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

LABORATORY CONTROL SAMPLE: 1476175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene chloride	ug/L	20	19.3	97	73-126	
n-Butylbenzene	ug/L	20	20.2	101	83-123	
n-Propylbenzene	ug/L	20	19.3	97	80-122	
p-Isopropyltoluene	ug/L	20	19.8	99	80-124	
sec-Butylbenzene	ug/L	20	19.5	97	80-129	
Styrene	ug/L	20	21.0	105	80-120	
tert-Amylmethyl ether	ug/L	20	20.1	100	74-120	
tert-Butyl Alcohol	ug/L	100	98.2	98	50-139	
Tetrachloroethene	ug/L	20	19.1	96	80-121	
Toluene	ug/L	20	19.2	96	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	21.3	107	59-133	
Trichloroethene	ug/L	20	18.9	95	80-120	
Trichlorofluoromethane	ug/L	20	19.5	98	67-120	
Vinyl acetate	ug/L	20	18.2	91	45-160	
Vinyl chloride	ug/L	20	19.8	99	59-120	
Xylene (Total)	ug/L	60	59.8	100	80-121	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: MSV/65670 Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60181979001, 60181979002, 60181979004

METHOD BLANK: 1476379 Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/10/14 12:11	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/10/14 12:11	
4-Bromofluorobenzene (S)	%	101	80-120	11/10/14 12:11	
Toluene-d8 (S)	%	99	80-120	11/10/14 12:11	

LABORATORY CONTROL SAMPLE: 1476380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.6	90	62-121	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: MSV/65755
QC Batch Method: EPA 8260/OA1
Analysis Method: EPA 8260/OA1
Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60181979003

METHOD BLANK: 1478788
Matrix: Water
Associated Lab Samples: 60181979003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/14/14 14:32	
1,2-Dichloroethane-d4 (S)	%	100	80-120	11/14/14 14:32	
4-Bromofluorobenzene (S)	%	98	80-120	11/14/14 14:32	
Toluene-d8 (S)	%	100	80-120	11/14/14 14:32	

LABORATORY CONTROL SAMPLE: 1478789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	4.5	112	62-121	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: OEXT/47017 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 60181979001, 60181979002, 60181979003

METHOD BLANK: 1474783 | Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichlorobenzene	ug/L	ND	10.0	11/09/14 11:55	
1,3-Dichlorobenzene	ug/L	ND	10.0	11/09/14 11:55	
1,4-Dichlorobenzene	ug/L	ND	10.0	11/09/14 11:55	
2,4-Dimethylphenol	ug/L	ND	10.0	11/09/14 11:55	
2,4-Dinitrophenol	ug/L	ND	50.0	11/09/14 11:55	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	11/09/14 11:55	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/09/14 11:55	
4-Nitrophenol	ug/L	ND	50.0	11/09/14 11:55	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	11/09/14 11:55	
Di-n-butylphthalate	ug/L	ND	10.0	11/09/14 11:55	
Diethylphthalate	ug/L	ND	10.0	11/09/14 11:55	
Dimethylphthalate	ug/L	ND	10.0	11/09/14 11:55	
Phenol	ug/L	ND	10.0	11/09/14 11:55	
Pyridine	ug/L	ND	10.0	11/09/14 11:55	
Quinoline	ug/L	ND	10.0	11/09/14 11:55	
2,4,6-Tribromophenol (S)	%	103	29-121	11/09/14 11:55	
2-Fluorobiphenyl (S)	%	89	19-124	11/09/14 11:55	
2-Fluorophenol (S)	%	51	13-120	11/09/14 11:55	
Nitrobenzene-d5 (S)	%	92	10-135	11/09/14 11:55	
Phenol-d6 (S)	%	36	10-120	11/09/14 11:55	
Terphenyl-d14 (S)	%	92	24-131	11/09/14 11:55	

LABORATORY CONTROL SAMPLE: 1474784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	42.6	85	45-120	
1,3-Dichlorobenzene	ug/L	50	41.5	83	44-120	
1,4-Dichlorobenzene	ug/L	50	41.3	83	44-120	
2,4-Dimethylphenol	ug/L	50	45.1	90	35-120	
2,4-Dinitrophenol	ug/L	50	55.3	111	21-120	
2-Methylphenol(o-Cresol)	ug/L	50	43.6	87	40-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	42.1	84	34-120	
4-Nitrophenol	ug/L	50	28.4J	57	10-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	45.2	90	52-123	
Di-n-butylphthalate	ug/L	50	46.2	92	49-125	
Diethylphthalate	ug/L	50	45.7	91	53-120	
Dimethylphthalate	ug/L	50	44.3	89	52-120	
Phenol	ug/L	50	25.3	51	12-120	
Pyridine	ug/L	50	25.8	52	10-120	
Quinoline	ug/L	50	40.7	81	37-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

LABORATORY CONTROL SAMPLE: 1474784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%			102	29-121	
2-Fluorobiphenyl (S)	%			87	19-124	
2-Fluorophenol (S)	%			58	13-120	
Nitrobenzene-d5 (S)	%			90	10-135	
Phenol-d6 (S)	%			45	10-120	
Terphenyl-d14 (S)	%			94	24-131	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: OEXT/47004 | Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C | Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60181979001, 60181979002, 60181979003

METHOD BLANK: 1473883 | Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.50	11/07/14 15:06	
2-Methylnaphthalene	ug/L	ND	0.50	11/07/14 15:06	
Acenaphthene	ug/L	ND	0.10	11/07/14 15:06	
Acenaphthylene	ug/L	ND	0.10	11/07/14 15:06	
Anthracene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(a)anthracene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(a)pyrene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/07/14 15:06	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/07/14 15:06	
Chrysene	ug/L	ND	0.10	11/07/14 15:06	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/07/14 15:06	
Fluoranthene	ug/L	ND	0.10	11/07/14 15:06	
Fluorene	ug/L	ND	0.10	11/07/14 15:06	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/07/14 15:06	
Naphthalene	ug/L	ND	0.50	11/07/14 15:06	
Phenanthrene	ug/L	ND	0.50	11/07/14 15:06	
Pyrene	ug/L	ND	0.10	11/07/14 15:06	
2-Fluorobiphenyl (S)	%	84	36-120	11/07/14 15:06	
Terphenyl-d14 (S)	%	94	29-134	11/07/14 15:06	

LABORATORY CONTROL SAMPLE: 1473884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	9.3	93	59-120	
2-Methylnaphthalene	ug/L	10	9.4	94	52-120	
Acenaphthene	ug/L	10	9.2	92	45-120	
Acenaphthylene	ug/L	10	9.5	95	42-120	
Anthracene	ug/L	10	9.4	94	39-120	
Benzo(a)anthracene	ug/L	10	9.8	98	40-125	
Benzo(a)pyrene	ug/L	10	9.8	98	39-122	
Benzo(b)fluoranthene	ug/L	10	9.5	95	33-134	
Benzo(g,h,i)perylene	ug/L	10	8.8	88	27-126	
Benzo(k)fluoranthene	ug/L	10	9.9	99	43-123	
Chrysene	ug/L	10	8.8	88	44-120	
Dibenz(a,h)anthracene	ug/L	10	9.3	93	21-129	
Fluoranthene	ug/L	10	9.5	95	45-126	
Fluorene	ug/L	10	9.6	96	44-120	
Indeno(1,2,3-cd)pyrene	ug/L	10	9.2	92	25-127	
Naphthalene	ug/L	10	9.2	92	44-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

LABORATORY CONTROL SAMPLE: 1473884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	9.2	92	43-120	
Pyrene	ug/L	10	9.1	91	39-120	
2-Fluorobiphenyl (S)	%			89	36-120	
Terphenyl-d14 (S)	%			87	29-134	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: OEXT/47005 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60181979001, 60181979002, 60181979003

METHOD BLANK: 1473887 Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	11/07/14 13:16	
Fuel Oil	mg/L	ND	0.40	11/07/14 13:16	
Jet Fuel	mg/L	ND	0.40	11/07/14 13:16	
Kerosene	mg/L	ND	0.40	11/07/14 13:16	
Mineral Spirits	mg/L	ND	0.40	11/07/14 13:16	
Motor Oil	mg/L	ND	0.40	11/07/14 13:16	
TEH as Diesel No.2	mg/L	0.42	0.40	11/07/14 13:16	
n-Tetracosane (S)	%	76	20-120	11/07/14 13:16	
p-Terphenyl (S)	%	73	29-122	11/07/14 13:16	

LABORATORY CONTROL SAMPLE: 1473888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	9.1	73	60-122	
n-Tetracosane (S)	%			61	20-120	
p-Terphenyl (S)	%			85	29-122	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: OEXT/47087 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60181979001, 60181979002, 60181979003

METHOD BLANK: 1477452 Matrix: Water
Associated Lab Samples: 60181979001, 60181979002, 60181979003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	11/13/14 21:19	
Fuel Oil	mg/L	ND	0.40	11/13/14 21:19	
Jet Fuel	mg/L	ND	0.40	11/13/14 21:19	
Kerosene	mg/L	ND	0.40	11/13/14 21:19	
Mineral Spirits	mg/L	ND	0.40	11/13/14 21:19	
Motor Oil	mg/L	ND	0.40	11/13/14 21:19	
TEH as Diesel No.2	mg/L	ND	0.40	11/13/14 21:19	
n-Tetracosane (S)	%	77	20-120	11/13/14 21:19	
p-Terphenyl (S)	%	80	29-122	11/13/14 21:19	

LABORATORY CONTROL SAMPLE: 1477453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	9.1	72	60-122	
n-Tetracosane (S)	%			66	20-120	
p-Terphenyl (S)	%			82	29-122	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60181979

QC Batch: WET/51392 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60181979001, 60181979002, 60181979003

SAMPLE DUPLICATE: 1474065

Parameter	Units	60181930001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	5	H6

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QUALIFIERS

Project: KDHE NEODESHA
Pace Project No.: 60181979

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/47004

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47005

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65590

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65646

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65670

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47087

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65755

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to late motor oil range. Quantitation achieved using diesel fuel as a reference standard.
B	Analyte was detected in the associated method blank.
H2	Extraction or preparation conducted outside EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.

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QUALIFIERS

Project: KDHE NEODESHA
Pace Project No.: 60181979

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60181979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60181979001	**MW-155/GW-01**	OA2	OEXT/47005	OA2	GCSV/17922
60181979001	**MW-155/GW-01**	OA2	OEXT/47087	OA2	GCSV/17954
60181979002	**DUP-01**	OA2	OEXT/47005	OA2	GCSV/17922
60181979002	**DUP-01**	OA2	OEXT/47087	OA2	GCSV/17954
60181979003	**MW-151/GW-01**	OA2	OEXT/47005	OA2	GCSV/17922
60181979003	**MW-151/GW-01**	OA2	OEXT/47087	OA2	GCSV/17954
60181979001	**MW-155/GW-01**	EPA 3010	MPRP/29708	EPA 6010	ICP/22268
60181979002	**DUP-01**	EPA 3010	MPRP/29708	EPA 6010	ICP/22268
60181979003	**MW-151/GW-01**	EPA 3010	MPRP/29708	EPA 6010	ICP/22268
60181979001	**MW-155/GW-01**	EPA 3010	MPRP/29780	EPA 6010	ICP/22310
60181979002	**DUP-01**	EPA 3010	MPRP/29780	EPA 6010	ICP/22310
60181979003	**MW-151/GW-01**	EPA 3010	MPRP/29780	EPA 6010	ICP/22310
60181979001	**MW-155/GW-01**	EPA 7470	MERP/9026	EPA 7470	MERC/8980
60181979002	**DUP-01**	EPA 7470	MERP/9026	EPA 7470	MERC/8980
60181979003	**MW-151/GW-01**	EPA 7470	MERP/9026	EPA 7470	MERC/8980
60181979001	**MW-155/GW-01**	EPA 7470	MERP/9033	EPA 7470	MERC/8989
60181979002	**DUP-01**	EPA 7470	MERP/9033	EPA 7470	MERC/8989
60181979003	**MW-151/GW-01**	EPA 7470	MERP/9033	EPA 7470	MERC/8989
60181979001	**MW-155/GW-01**	EPA 3510	OEXT/47017	EPA 8270	MSSV/15141
60181979002	**DUP-01**	EPA 3510	OEXT/47017	EPA 8270	MSSV/15141
60181979003	**MW-151/GW-01**	EPA 3510	OEXT/47017	EPA 8270	MSSV/15141
60181979001	**MW-155/GW-01**	EPA 3510C	OEXT/47004	EPA 8270C by SIM	MSSV/15137
60181979002	**DUP-01**	EPA 3510C	OEXT/47004	EPA 8270C by SIM	MSSV/15137
60181979003	**MW-151/GW-01**	EPA 3510C	OEXT/47004	EPA 8270C by SIM	MSSV/15137
60181979001	**MW-155/GW-01**	EPA 5030B/8260	MSV/65590		
60181979001	**MW-155/GW-01**	EPA 5030B/8260	MSV/65646		
60181979002	**DUP-01**	EPA 5030B/8260	MSV/65590		
60181979002	**DUP-01**	EPA 5030B/8260	MSV/65646		
60181979003	**MW-151/GW-01**	EPA 5030B/8260	MSV/65590		
60181979004	**TB-03**	EPA 5030B/8260	MSV/65646		
60181979001	**MW-155/GW-01**	EPA 8260/OA1	MSV/65670		
60181979002	**DUP-01**	EPA 8260/OA1	MSV/65670		
60181979003	**MW-151/GW-01**	EPA 8260/OA1	MSV/65755		
60181979004	**TB-03**	EPA 8260/OA1	MSV/65670		
60181979001	**MW-155/GW-01**	SM 4500-H+B	WET/51392		
60181979002	**DUP-01**	SM 4500-H+B	WET/51392		
60181979003	**MW-151/GW-01**	SM 4500-H+B	WET/51392		

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Sample Condition Upon Receipt

WO#: 60181979

60181979

Client Name: Burns + McDonnell

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8942 5890 7041 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JD 11/5

Chain of Custody present:	☒Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☒Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☒Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☒Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time requested:	☐Yes	☒No	☐N/A	7.
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	
Pace containers used:	☒Yes	☐No	☐N/A	9.
Containers intact:	☒Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes	☐No	☐N/A	13.
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	For each sample, added 1ml HNO3 to one 40ml initial pH <1.0 & final pH <1.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes	☐No	☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes	☐No		Initial when completed: [illegible] Lot # of added preservative: 12513-37-10
Trip Blank present: Pace Trip Blank lot # (if purchased): Covered	☒Yes	☐No	☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes	☒No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒N/A	17. List State: KS

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / (N)

Person Contacted: Trevor Date/Time: 11/6

Comments/ Resolution: pH AND TOTAL RCAP8 REQUIRED.

Project Manager Review: [illegible] Date: 11/6/14

Burns & McDonnell SINCE 1898

021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

6018979

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LOIRET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No:
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KDHE NEODESHA

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Matrix: Liquid	Matrix: Solid	Matrix: Gas	Number of Containers	Analysis: VOC 8260 / GRO OA1	Analysis: SVOC 8270	Analysis: RCRA 8 - FILTERED	Analysis: PAH 8270 SIM	Analysis: OA2 DCIA-D Total, pH	Remarks
MW-15S	/GW-01	~~(2)AG4H~~ JO 11/5 (1)AG4H	(2)AG1H	BP3F 2.0			11/4/14	1255	X			10	X	X	X	X	X	✓ FIELD FILTERED W1
DUP-01		↓	↓	↓			11/4/14	—	X			10	X	X	X	X	X	✓ FIELD FILTERED W2
MW-15I	/GW-01	↓	↓	↓			11/4/14	1449	X			10	X	X	X	X	X	✓ FIELD FILTERED W3
TB-03		(2)DG9H					11/4/14	—	X			2	X					W4

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. — Date/Time 11/4/14 1530

Received By (signature): Pace — Date/Time 11/5 0815

Relinquished By (signature): 2. — Date/Time

Received By (signature): — Date/Time

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: ~~2.4°C~~ JO 11/5 2.0°C

Laboratory Comments:

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 60181979001
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 06-NOV-2014 19:51

Client SDG: SDGa04284

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0-00-0	2-(Dibromomethane)-1-methyl	0.773	42	NJ
2. 78-78-4	Butane, 2-methyl-	1.214	81	NJ
3. 75-43-4	Methane, dichlorofluoro-	1.268	91	NJ
4. 109-66-0	Pentane	1.330	14	NJ
5. 108-08-7	Pentane, 2,4-dimethyl-	2.477	13	NJ
6. 96-37-7	Cyclopentane, methyl-	2.535	23	NJ
7. 590-73-8	Hexane, 2,2-dimethyl-	3.227	82	NJ
8. 565-75-3	Pentane, 2,3,4-trimethyl-	3.995	44	NJ
9. 921-47-1	Hexane, 2,3,4-trimethyl-	4.072	68	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 60181979002
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 06-NOV-2014 20:06

Client SDG: SDGa04284

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0-00-0	3-Cyano-2,5-dimethylpyrazin	0.770	42	NJ
2. 78-78-4	Butane, 2-methyl-	1.214	82	NJ
3. 75-43-4	Methane, dichlorofluoro-	1.269	99	NJ
4. 109-66-0	Pentane	1.330	15	NJ
5. 108-08-7	Pentane, 2,4-dimethyl-	2.478	14	NJ
6. 4806-61-5	Cyclobutane, ethyl-	2.539	24	NJ
7. 1638-26-2	Cyclopentane, 1,1-dimethyl-	3.098	9.08	NJ
8. 565-75-3	Pentane, 2,3,4-trimethyl-	3.995	47	NJ
9. 560-21-4	Pentane, 2,3,3-trimethyl-	4.072	74	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 60181979003X50
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 06-NOV-2014 21:05

Client SDG: SDGa04284

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 78-78-4	Butane, 2-methyl-	1.217	420	NJ__
2. 109-66-0	Pentane	1.329	540	NJ__
3. 96-37-7	Cyclopentane, methyl-	2.538	1400	NJ__
4. 5685-46-1	1,1'-Bicyclopropyl	3.243	510	NJ__
5. 1638-26-2	Cyclopentane, 1,1-dimethyl-	3.284	380	NJ__
6. 591-49-1	Cyclohexene, 1-methyl-	4.307	320	NJ__
7. 933-98-2	Benzene, 1-ethyl-2,3-dimeth	7.426	440	NJ__
8. 7525-62-4	Benzene, 1-ethenyl-3-ethyl-	7.503	390	NJ__
9. 2039-89-6	Benzene, 2-ethenyl-1,4-dime	8.024	540	NJ__

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_05-NOV-2014 08:15 Client SDG: 6018197
Lab Smp Id: 60181979004 Client Smp ID: TB-03
Operator : PRG Sample Date:
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:05-NOV-2014 08:15
Analysis Type: VOA Level: LOW
Inj Date: 10-NOV-2014 12:35

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1476379
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-NOV-2014 12:11

Client SDG: 111014a.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1474143
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 06-NOV-2014 17:39

Client SDG: 60MSV8-110614a
Client Smp ID: MB
Sample Date:
Sample Point:
Date Received:06-NOV-2014 11:53
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

November 24, 2014

Trevor Gustafson
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

RE: Project: KDHE NEODESHA
Pace Project No.: 60182085

Dear Trevor Gustafson:
Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: TREVOR GUSTAFSON, BURNS & MCDONNELL

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CERTIFICATIONS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: KDHE NEODESHA
Pace Project No.: 60182085

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60182085001	**MW-150 / GW-01**	Water	11/04/14 16:54	11/06/14 08:50
60182085002	**MW-149 / GW-01**	Water	11/04/14 17:54	11/06/14 08:50
60182085003	**MW-166 / GW-01**	Water	11/04/14 19:17	11/06/14 08:50
60182085004	**TB-04**	Water	11/04/14 16:54	11/06/14 08:50
60182085005	**MW-156 / GW-01**	Water	11/05/14 07:36	11/06/14 08:10
60182085006	**MW-153 / GW-01**	Water	11/05/14 09:27	11/06/14 08:10
60182085007	**MW-170 / GW-01**	Water	11/05/14 11:41	11/06/14 08:10
60182085008	**TB-05**	Water	11/05/14 07:36	11/06/14 08:10
60182085009	**MW-169 / GW-01**	Water	11/05/14 12:58	11/06/14 08:10
60182085010	**MW-162 / GW-01**	Water	11/05/14 13:57	11/06/14 08:10
60182085011	**TB-06**	Water	11/05/14 12:58	11/06/14 08:10

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60182085

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60182085001	**MW-150 / GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182085002	**MW-149 / GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182085003	**MW-166 / GW-01**	OA2	JDE	9
		EPA 6010	NDJ, SMW	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182085004	**TB-04**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
60182085005	**MW-156 / GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60182085

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182085006	**MW-153 / GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182085007	**MW-170 / GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182085008	**TB-05**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
60182085009	**MW-169 / GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60182085

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60182085010	**MW-162 / GW-01**	OA2	JDE	9
		EPA 6010	NDJ	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182085011	**TB-06**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: November 24, 2014

General Information:
8 samples were analyzed for OA2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H2: Extraction or preparation conducted outside EPA method holding time.
- MW-149 / GW-01 (Lab ID: 60182085002)
- MW-150 / GW-01 (Lab ID: 60182085001)
- MW-153 / GW-01 (Lab ID: 60182085006)
- MW-156 / GW-01 (Lab ID: 60182085005)
- MW-162 / GW-01 (Lab ID: 60182085010)
- MW-166 / GW-01 (Lab ID: 60182085003)
- MW-169 / GW-01 (Lab ID: 60182085009)
- MW-170 / GW-01 (Lab ID: 60182085007)

Sample Preparation:
The samples were prepared in accordance with OA2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: OEXT/47021

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- LCS (Lab ID: 1475016)
  - Diesel Fuel

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/47021

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: November 24, 2014

QC Batch: OEXT/47169

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/47021

1e: The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to late motor oil range. Quantitation achieved using diesel fuel as a reference standard.

- MW-149 / GW-01 (Lab ID: 60182085002)
  - TEH as Diesel No.2
- MW-150 / GW-01 (Lab ID: 60182085001)
  - TEH as Diesel No.2
- MW-156 / GW-01 (Lab ID: 60182085005)
  - TEH as Diesel No.2
- MW-162 / GW-01 (Lab ID: 60182085010)
  - TEH as Diesel No.2
- MW-166 / GW-01 (Lab ID: 60182085003)
  - TEH as Diesel No.2
- MW-169 / GW-01 (Lab ID: 60182085009)
  - TEH as Diesel No.2
- MW-170 / GW-01 (Lab ID: 60182085007)
  - TEH as Diesel No.2

QC Batch: OEXT/47169

2e: The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to early motor oil range. Quantitation achieved using diesel fuel as a reference standard.

- MW-150 / GW-01 (Lab ID: 60182085001)
  - TEH as Diesel No.2
- MW-156 / GW-01 (Lab ID: 60182085005)
  - TEH as Diesel No.2
- MW-166 / GW-01 (Lab ID: 60182085003)
  - TEH as Diesel No.2
- MW-169 / GW-01 (Lab ID: 60182085009)
  - TEH as Diesel No.2
- MW-170 / GW-01 (Lab ID: 60182085007)
  - TEH as Diesel No.2

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Burns and McDonnell_BP
Date: November 24, 2014

General Information:
8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: Burns and McDonnell_BP
Date: November 24, 2014

General Information:
8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Method: **EPA 7470**
Description: 7470 Mercury
Client: Burns and McDonnell_BP
Date: November 24, 2014

General Information:
8 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: Burns and McDonnell_BP
Date: November 24, 2014

General Information:
8 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/9035

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60182085001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1476671)
  - Mercury, Dissolved
- MSD (Lab ID: 1476672)
  - Mercury, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Burns and McDonnell_BP
Date: November 24, 2014

General Information:
8 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: Burns and McDonnell_BP
Date: November 24, 2014

General Information:
8 samples were analyzed for EPA 8270C by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/47019

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60182101004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1474796)
  - 1-Methylnaphthalene
- MSD (Lab ID: 1474797)
  - 1-Methylnaphthalene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1474797)
  - 1-Methylnaphthalene
  - Fluorene

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Burns and McDonnell_BP
Date: November 24, 2014

General Information:
11 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65653

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/65690

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: MSV/65690

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-156 / GW-01 (Lab ID: 60182085005)
  - 4-Bromofluorobenzene (S)

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Method: **EPA 8260/OA1**
Description: 8260/OA1 UST, Water
Client: Burns and McDonnell_BP
Date: November 24, 2014

General Information:
11 samples were analyzed for EPA 8260/OA1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65671

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/65698

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Burns and McDonnell_BP
Date: November 24, 2014

General Information:
8 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- MW-149 / GW-01 (Lab ID: 60182085002)
- MW-150 / GW-01 (Lab ID: 60182085001)
- MW-153 / GW-01 (Lab ID: 60182085006)
- MW-156 / GW-01 (Lab ID: 60182085005)
- MW-162 / GW-01 (Lab ID: 60182085010)
- MW-166 / GW-01 (Lab ID: 60182085003)
- MW-169 / GW-01 (Lab ID: 60182085009)
- MW-170 / GW-01 (Lab ID: 60182085007)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-150 / GW-01 **Lab ID: 60182085001** Collected: 11/04/14 16:54 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:26	68334-30-5	L2
Diesel Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:27	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:26	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:27	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:26	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:27	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:26	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:27	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:26	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:27	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:26	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:27	64742-65-0	H2
TEH as Diesel No.2	**1.7**	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:26		1e
TEH as Diesel No.2	**1.3**	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:27		2e,H2
Surrogates								
p-Terphenyl (S)	75	%	29-122	1	11/18/14 00:00	11/19/14 13:27	92-94-4	
p-Terphenyl (S)	93	%	29-122	1	11/07/14 00:00	11/12/14 04:26	92-94-4	
n-Tetracosane (S)	78	%	20-120	1	11/07/14 00:00	11/12/14 04:26	646-31-1	
n-Tetracosane (S)	72	%	20-120	1	11/18/14 00:00	11/19/14 13:27	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**10.5**	ug/L	10	1	11/11/14 18:00	11/13/14 12:41	7440-38-2	
Barium	**222**	ug/L	10	1	11/11/14 18:00	11/12/14 16:48	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 16:48	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 16:48	7440-47-3	
Lead	ND	ug/L	5.0	1	11/11/14 18:00	11/13/14 12:41	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/11/14 18:00	11/12/14 16:48	7782-49-2	
Silver	ND	ug/L	7.0	1	11/11/14 18:00	11/12/14 16:48	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**14.1**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:47	7440-38-2	D9
Barium, Dissolved	**210**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:47	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:47	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:47	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:47	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:47	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:47	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 12:03	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 11:24	7439-97-6	M1
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-150 / GW-01 **Lab ID: 60182085001** Collected: 11/04/14 16:54 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	106-46-7	
Diethylphthalate	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	105-67-9	
Dimethylphthalate	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	84-74-2	
2,4-Dinitrophenol	ND	ug/L	54.9	1	11/10/14 00:00	11/14/14 00:16	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16		
4-Nitrophenol	ND	ug/L	54.9	1	11/10/14 00:00	11/14/14 00:16	100-02-7	
Phenol	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	108-95-2	
Pyridine	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	110-86-1	
Quinoline	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 00:16	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	59	%	10-135	1	11/10/14 00:00	11/14/14 00:16	4165-60-0	
2-Fluorobiphenyl (S)	64	%	19-124	1	11/10/14 00:00	11/14/14 00:16	321-60-8	
Terphenyl-d14 (S)	86	%	24-131	1	11/10/14 00:00	11/14/14 00:16	1718-51-0	
Phenol-d6 (S)	24	%	10-120	1	11/10/14 00:00	11/14/14 00:16	13127-88-3	
2-Fluorophenol (S)	35	%	13-120	1	11/10/14 00:00	11/14/14 00:16	367-12-4	
2,4,6-Tribromophenol (S)	79	%	29-121	1	11/10/14 00:00	11/14/14 00:16	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.83**	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	83-32-9	
Acenaphthylene	**0.17**	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	208-96-8	
Anthracene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	207-08-9	
Chrysene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	53-70-3	
Fluoranthene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	206-44-0	
Fluorene	**0.74**	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	193-39-5	
1-Methylnaphthalene	**48.6**	ug/L	2.9	5	11/07/14 00:00	11/11/14 14:29	90-12-0	
2-Methylnaphthalene	**33.1**	ug/L	2.9	5	11/07/14 00:00	11/11/14 14:29	91-57-6	
Naphthalene	**35.4**	ug/L	2.9	5	11/07/14 00:00	11/11/14 14:29	91-20-3	
Phenanthrene	ND	ug/L	0.58	1	11/07/14 00:00	11/10/14 19:15	85-01-8	
Pyrene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 19:15	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%	36-120	1	11/07/14 00:00	11/10/14 19:15	321-60-8	
Terphenyl-d14 (S)	79	%	29-134	1	11/07/14 00:00	11/10/14 19:15	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	50.0	5		11/11/14 01:58	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-150 / GW-01 **Lab ID: 60182085001** Collected: 11/04/14 16:54 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**22.2**	ug/L	5.0	5		11/11/14 01:58	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	5		11/11/14 01:58	75-27-4	
2-Butanone (MEK)	ND	ug/L	50.0	5		11/11/14 01:58	78-93-3	
n-Butylbenzene	**17.4**	ug/L	5.0	5		11/11/14 01:58	104-51-8	
sec-Butylbenzene	**19.1**	ug/L	5.0	5		11/11/14 01:58	135-98-8	
tert-Butyl Alcohol	ND	ug/L	50.0	5		11/11/14 01:58	75-65-0	
Carbon disulfide	ND	ug/L	25.0	5		11/11/14 01:58	75-15-0	
Chlorobenzene	ND	ug/L	5.0	5		11/11/14 01:58	108-90-7	
Chloroethane	ND	ug/L	5.0	5		11/11/14 01:58	75-00-3	
Chloroform	ND	ug/L	5.0	5		11/11/14 01:58	67-66-3	
Chloromethane	ND	ug/L	5.0	5		11/11/14 01:58	74-87-3	
4-Chlorotoluene	ND	ug/L	5.0	5		11/11/14 01:58	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	5		11/11/14 01:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		11/11/14 01:58	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		11/11/14 01:58	74-95-3	
1,1-Dichloroethane	ND	ug/L	5.0	5		11/11/14 01:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		11/11/14 01:58	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	5		11/11/14 01:58	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	5		11/11/14 01:58	75-35-4	
1,2-Dichloropropane	ND	ug/L	5.0	5		11/11/14 01:58	78-87-5	
Ethylbenzene	**11.4**	ug/L	5.0	5		11/11/14 01:58	100-41-4	
2-Hexanone	ND	ug/L	50.0	5		11/11/14 01:58	591-78-6	
Isopropylbenzene (Cumene)	**106**	ug/L	5.0	5		11/11/14 01:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		11/11/14 01:58	99-87-6	
Methylene chloride	ND	ug/L	5.0	5		11/11/14 01:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		11/11/14 01:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		11/11/14 01:58	1634-04-4	
n-Propylbenzene	**182**	ug/L	5.0	5		11/11/14 01:58	103-65-1	
Styrene	ND	ug/L	5.0	5		11/11/14 01:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		11/11/14 01:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		11/11/14 01:58	127-18-4	
Toluene	ND	ug/L	5.0	5		11/11/14 01:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		11/11/14 01:58	71-55-6	
Trichloroethene	ND	ug/L	5.0	5		11/11/14 01:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		11/11/14 01:58	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		11/11/14 01:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		11/11/14 01:58	108-67-8	
Vinyl chloride	ND	ug/L	5.0	5		11/11/14 01:58	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		11/11/14 01:58	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	500	5		11/11/14 01:58	123-91-1	
Vinyl acetate	ND	ug/L	50.0	5		11/11/14 01:58	108-05-4	
Acrylonitrile	ND	ug/L	100	5		11/11/14 01:58	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	25.0	5		11/11/14 01:58	110-57-6	
tert-Amylmethyl ether	ND	ug/L	5.0	5		11/11/14 01:58	994-05-8	
Diisopropyl ether	ND	ug/L	5.0	5		11/11/14 01:58	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	5.0	5		11/11/14 01:58	637-92-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-150 / GW-01 **Lab ID: 60182085001** Collected: 11/04/14 16:54 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	5		11/11/14 01:58	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	5		11/11/14 01:58	17060-07-0	
Toluene-d8 (S)	99	%	80-120	5		11/11/14 01:58	2037-26-5	
Preservation pH	**1.0**		0.10	5		11/11/14 01:58		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**3.3**	mg/L	2.5	5		11/11/14 01:58		
Preservation pH	**1.0**		0.10	5		11/11/14 01:58		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		11/08/14 12:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-149 / GW-01 **Lab ID: 60182085002** Collected: 11/04/14 17:54 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:34	68334-30-5	L2
Diesel Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:35	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:34	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:35	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:34	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:35	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:34	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:35	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:34	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:35	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:34	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:35	64742-65-0	H2
TEH as Diesel No.2	**0.54**	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:34		1e
TEH as Diesel No.2	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:35		H2
Surrogates								
p-Terphenyl (S)	74	%	29-122	1	11/18/14 00:00	11/19/14 13:35	92-94-4	
p-Terphenyl (S)	88	%	29-122	1	11/07/14 00:00	11/12/14 04:34	92-94-4	
n-Tetracosane (S)	72	%	20-120	1	11/18/14 00:00	11/19/14 13:35	646-31-1	
n-Tetracosane (S)	79	%	20-120	1	11/07/14 00:00	11/12/14 04:34	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/11/14 18:00	11/12/14 16:56	7440-38-2	
Barium	**272**	ug/L	10.0	1	11/11/14 18:00	11/12/14 16:56	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 16:56	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 16:56	7440-47-3	
Lead	ND	ug/L	5.0	1	11/11/14 18:00	11/13/14 12:54	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/11/14 18:00	11/12/14 16:56	7782-49-2	
Silver	ND	ug/L	7.0	1	11/11/14 18:00	11/12/14 16:56	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:51	7440-38-2	
Barium, Dissolved	**269**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:51	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:51	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:51	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:51	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:51	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:51	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 12:05	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 11:35	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-149 / GW-01 **Lab ID: 60182085002** Collected: 11/04/14 17:54 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	106-46-7	
Diethylphthalate	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	105-67-9	
Dimethylphthalate	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	84-74-2	
2,4-Dinitrophenol	ND	ug/L	58.8	1	11/10/14 00:00	11/14/14 00:37	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37		
4-Nitrophenol	ND	ug/L	58.8	1	11/10/14 00:00	11/14/14 00:37	100-02-7	
Phenol	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	108-95-2	
Pyridine	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	110-86-1	
Quinoline	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 00:37	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	61	%	10-135	1	11/10/14 00:00	11/14/14 00:37	4165-60-0	
2-Fluorobiphenyl (S)	68	%	19-124	1	11/10/14 00:00	11/14/14 00:37	321-60-8	
Terphenyl-d14 (S)	89	%	24-131	1	11/10/14 00:00	11/14/14 00:37	1718-51-0	
Phenol-d6 (S)	24	%	10-120	1	11/10/14 00:00	11/14/14 00:37	13127-88-3	
2-Fluorophenol (S)	37	%	13-120	1	11/10/14 00:00	11/14/14 00:37	367-12-4	
2,4,6-Tribromophenol (S)	83	%	29-121	1	11/10/14 00:00	11/14/14 00:37	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.76**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	83-32-9	
Acenaphthylene	**0.11**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	208-96-8	
Anthracene	**0.16**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	206-44-0	
Fluorene	**0.30**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 19:36	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 19:36	91-57-6	
Naphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 19:36	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 19:36	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:36	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	77	%	36-120	1	11/07/14 00:00	11/10/14 19:36	321-60-8	
Terphenyl-d14 (S)	73	%	29-134	1	11/07/14 00:00	11/10/14 19:36	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 17:51	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-149 / GW-01 **Lab ID: 60182085002** Collected: 11/04/14 17:54 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		11/11/14 17:51	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 17:51	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 17:51	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 17:51	104-51-8	
sec-Butylbenzene	**3.6**	ug/L	1.0	1		11/11/14 17:51	135-98-8	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 17:51	75-65-0	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 17:51	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 17:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 17:51	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 17:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 17:51	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 17:51	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 17:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 17:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 17:51	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 17:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 17:51	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 17:51	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 17:51	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 17:51	78-87-5	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 17:51	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 17:51	591-78-6	
Isopropylbenzene (Cumene)	**3.3**	ug/L	1.0	1		11/11/14 17:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 17:51	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 17:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 17:51	1634-04-4	
n-Propylbenzene	**3.2**	ug/L	1.0	1		11/11/14 17:51	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 17:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 17:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 17:51	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 17:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 17:51	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 17:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 17:51	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 17:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 17:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 17:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 17:51	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 17:51	123-91-1	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 17:51	108-05-4	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 17:51	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 17:51	110-57-6	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 17:51	994-05-8	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 17:51	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 17:51	637-92-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-149 / GW-01 **Lab ID: 60182085002** Collected: 11/04/14 17:54 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		11/11/14 17:51	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/11/14 17:51	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/11/14 17:51	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 17:51		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**0.85**	mg/L	0.50	1		11/11/14 17:51		
Preservation pH	**1.0**		0.10	1		11/11/14 17:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		11/08/14 12:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-166 / GW-01 **Lab ID: 60182085003** Collected: 11/04/14 19:17 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:41	68334-30-5	L2
Diesel Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:42	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:41	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:42	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:41	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:42	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:41	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:42	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:41	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:42	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:41	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:42	64742-65-0	H2
TEH as Diesel No.2	**1.7**	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:41		1e
TEH as Diesel No.2	**0.56**	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:42		2e,H2
Surrogates								
p-Terphenyl (S)	77	%	29-122	1	11/18/14 00:00	11/19/14 13:42	92-94-4	
p-Terphenyl (S)	117	%	29-122	1	11/07/14 00:00	11/12/14 04:41	92-94-4	
n-Tetracosane (S)	87	%	20-120	1	11/07/14 00:00	11/12/14 04:41	646-31-1	
n-Tetracosane (S)	73	%	20-120	1	11/18/14 00:00	11/19/14 13:42	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/11/14 18:00	11/12/14 16:58	7440-38-2	
Barium	**138**	ug/L	10.0	1	11/11/14 18:00	11/12/14 16:58	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 16:58	7440-43-9	
Chromium	**8.8**	ug/L	5.0	1	11/11/14 18:00	11/12/14 16:58	7440-47-3	
Lead	**22.4**	ug/L	10.0	2	11/11/14 18:00	11/13/14 10:17	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/11/14 18:00	11/12/14 16:58	7782-49-2	
Silver	ND	ug/L	7.0	1	11/11/14 18:00	11/12/14 16:58	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:54	7440-38-2	
Barium, Dissolved	**75.9**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:54	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:54	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:54	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:54	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:54	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:54	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 12:07	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 11:37	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-166 / GW-01 **Lab ID: 60182085003** Collected: 11/04/14 19:17 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	106-46-7	
Diethylphthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	105-67-9	
Dimethylphthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	84-74-2	
2,4-Dinitrophenol	ND	ug/L	55.6	1	11/10/14 00:00	11/14/14 00:57	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57		
4-Nitrophenol	ND	ug/L	55.6	1	11/10/14 00:00	11/14/14 00:57	100-02-7	
Phenol	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	108-95-2	
Pyridine	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	110-86-1	
Quinoline	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 00:57	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	64	%	10-135	1	11/10/14 00:00	11/14/14 00:57	4165-60-0	
2-Fluorobiphenyl (S)	72	%	19-124	1	11/10/14 00:00	11/14/14 00:57	321-60-8	
Terphenyl-d14 (S)	92	%	24-131	1	11/10/14 00:00	11/14/14 00:57	1718-51-0	
Phenol-d6 (S)	24	%	10-120	1	11/10/14 00:00	11/14/14 00:57	13127-88-3	
2-Fluorophenol (S)	33	%	13-120	1	11/10/14 00:00	11/14/14 00:57	367-12-4	
2,4,6-Tribromophenol (S)	89	%	29-121	1	11/10/14 00:00	11/14/14 00:57	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.10**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	120-12-7	
Benzo(a)anthracene	**0.33**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	56-55-3	
Benzo(a)pyrene	**0.26**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	50-32-8	
Benzo(b)fluoranthene	**0.16**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	205-99-2	
Benzo(g,h,i)perylene	**0.13**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	207-08-9	
Chrysene	**0.43**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	206-44-0	
Fluorene	**0.11**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 19:56	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 19:56	91-57-6	
Naphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 19:56	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 19:56	85-01-8	
Pyrene	**1.4**	ug/L	0.10	1	11/07/14 00:00	11/10/14 19:56	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	78	%	36-120	1	11/07/14 00:00	11/10/14 19:56	321-60-8	
Terphenyl-d14 (S)	81	%	29-134	1	11/07/14 00:00	11/10/14 19:56	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 18:07	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-166 / GW-01 **Lab ID: 60182085003** Collected: 11/04/14 19:17 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 18:07	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 18:07	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 18:07	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 18:07	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 18:07	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 18:07	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 18:07	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 18:07	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 18:07	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 18:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 18:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 18:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 18:07	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 18:07	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 18:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 18:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 18:07	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 18:07	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 18:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 18:07	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 18:07	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 18:07	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 18:07	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 18:07	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 18:07	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 18:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 18:07	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 18:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 18:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 18:07	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 18:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 18:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 18:07	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 18:07	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 18:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 18:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 18:07	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 18:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 18:07	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 18:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 18:07	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 18:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 18:07	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 18:07	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 18:07	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 18:07	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-166 / GW-01 **Lab ID: 60182085003** Collected: 11/04/14 19:17 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		11/11/14 18:07	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/11/14 18:07	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/11/14 18:07	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 18:07		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 18:07		
Preservation pH	**1.0**		0.10	1		11/11/14 18:07		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.7**	Std. Units	0.10	1		11/08/14 12:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: TB-04 **Lab ID: 60182085004** Collected: 11/04/14 16:54 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/10/14 22:28	67-64-1	
Benzene	ND	ug/L	1.0	1		11/10/14 22:28	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/10/14 22:28	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/10/14 22:28	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/10/14 22:28	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/10/14 22:28	135-98-8	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/10/14 22:28	75-65-0	
Carbon disulfide	ND	ug/L	5.0	1		11/10/14 22:28	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/10/14 22:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/10/14 22:28	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/10/14 22:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/10/14 22:28	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/10/14 22:28	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/10/14 22:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/10/14 22:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/10/14 22:28	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/10/14 22:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/10/14 22:28	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/10/14 22:28	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/10/14 22:28	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/10/14 22:28	78-87-5	
Ethylbenzene	ND	ug/L	1.0	1		11/10/14 22:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/10/14 22:28	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/10/14 22:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/10/14 22:28	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/10/14 22:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/10/14 22:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/10/14 22:28	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/10/14 22:28	103-65-1	
Styrene	ND	ug/L	1.0	1		11/10/14 22:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/10/14 22:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/10/14 22:28	127-18-4	
Toluene	ND	ug/L	1.0	1		11/10/14 22:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/10/14 22:28	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/10/14 22:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/10/14 22:28	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/10/14 22:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/10/14 22:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/10/14 22:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/10/14 22:28	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/10/14 22:28	123-91-1	
Vinyl acetate	ND	ug/L	10.0	1		11/10/14 22:28	108-05-4	
Acrylonitrile	ND	ug/L	20.0	1		11/10/14 22:28	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/10/14 22:28	110-57-6	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/10/14 22:28	994-05-8	
Diisopropyl ether	ND	ug/L	1.0	1		11/10/14 22:28	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/10/14 22:28	637-92-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: TB-04 **Lab ID: 60182085004** Collected: 11/04/14 16:54 Received: 11/06/14 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		11/10/14 22:28	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		11/10/14 22:28	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/10/14 22:28	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/10/14 22:28		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/10/14 22:28		
Preservation pH	**1.0**		0.10	1		11/10/14 22:28		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-156 / GW-01 **Lab ID: 60182085005** Collected: 11/05/14 07:36 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:49	68334-30-5	L2
Diesel Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:50	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:49	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:50	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:49	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:50	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:49	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:50	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:49	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:50	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:49	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:50	64742-65-0	H2
TEH as Diesel No.2	**3.0**	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:49		1e
TEH as Diesel No.2	**2.2**	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:50		2e,H2
Surrogates								
p-Terphenyl (S)	80	%	29-122	1	11/18/14 00:00	11/19/14 13:50	92-94-4	
p-Terphenyl (S)	98	%	29-122	1	11/07/14 00:00	11/12/14 04:49	92-94-4	
n-Tetracosane (S)	87	%	20-120	1	11/07/14 00:00	11/12/14 04:49	646-31-1	
n-Tetracosane (S)	78	%	20-120	1	11/18/14 00:00	11/19/14 13:50	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**34.7**	ug/L	10.0	1	11/11/14 18:00	11/12/14 17:05	7440-38-2	
Barium	**952**	ug/L	10.0	1	11/11/14 18:00	11/12/14 17:05	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 17:05	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 17:05	7440-47-3	
Lead	ND	ug/L	5.0	1	11/11/14 18:00	11/13/14 12:56	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/11/14 18:00	11/12/14 17:05	7782-49-2	
Silver	ND	ug/L	7.0	1	11/11/14 18:00	11/12/14 17:05	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**32.2**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:58	7440-38-2	
Barium, Dissolved	**944**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:58	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:58	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:58	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:58	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:58	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:58	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 12:18	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 11:39	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-156 / GW-01 **Lab ID: 60182085005** Collected: 11/05/14 07:36 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	106-46-7	
Diethylphthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	105-67-9	
Dimethylphthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	84-74-2	
2,4-Dinitrophenol	ND	ug/L	55.6	1	11/10/14 00:00	11/14/14 01:18	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18		
4-Nitrophenol	ND	ug/L	55.6	1	11/10/14 00:00	11/14/14 01:18	100-02-7	
Phenol	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	108-95-2	
Pyridine	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	110-86-1	
Quinoline	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 01:18	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	71	%	10-135	1	11/10/14 00:00	11/14/14 01:18	4165-60-0	
2-Fluorobiphenyl (S)	78	%	19-124	1	11/10/14 00:00	11/14/14 01:18	321-60-8	
Terphenyl-d14 (S)	99	%	24-131	1	11/10/14 00:00	11/14/14 01:18	1718-51-0	
Phenol-d6 (S)	26	%	10-120	1	11/10/14 00:00	11/14/14 01:18	13127-88-3	
2-Fluorophenol (S)	39	%	13-120	1	11/10/14 00:00	11/14/14 01:18	367-12-4	
2,4,6-Tribromophenol (S)	97	%	29-121	1	11/10/14 00:00	11/14/14 01:18	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.88**	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	83-32-9	
Acenaphthylene	**0.28**	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	208-96-8	
Anthracene	**0.14**	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	206-44-0	
Fluorene	**1.2**	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	193-39-5	
1-Methylnaphthalene	**87.9**	ug/L	10.0	20	11/07/14 00:00	11/11/14 14:50	90-12-0	
2-Methylnaphthalene	**164**	ug/L	10.0	20	11/07/14 00:00	11/11/14 14:50	91-57-6	
Naphthalene	**176**	ug/L	10.0	20	11/07/14 00:00	11/11/14 14:50	91-20-3	
Phenanthrene	**1.1**	ug/L	0.50	1	11/07/14 00:00	11/10/14 20:17	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:17	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	84	%	36-120	1	11/07/14 00:00	11/10/14 20:17	321-60-8	
Terphenyl-d14 (S)	88	%	29-134	1	11/07/14 00:00	11/10/14 20:17	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	50.0	5		11/11/14 18:39	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-156 / GW-01 **Lab ID: 60182085005** Collected: 11/05/14 07:36 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acrylonitrile	ND	ug/L	100	5		11/11/14 18:39	107-13-1	
tert-Amylmethyl ether	ND	ug/L	5.0	5		11/11/14 18:39	994-05-8	
Benzene	**89.0**	ug/L	5.0	5		11/11/14 18:39	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	5		11/11/14 18:39	75-27-4	
2-Butanone (MEK)	ND	ug/L	50.0	5		11/11/14 18:39	78-93-3	
tert-Butyl Alcohol	**53.5**	ug/L	50.0	5		11/11/14 18:39	75-65-0	
n-Butylbenzene	**15.7**	ug/L	5.0	5		11/11/14 18:39	104-51-8	
sec-Butylbenzene	**12.9**	ug/L	5.0	5		11/11/14 18:39	135-98-8	
Carbon disulfide	ND	ug/L	25.0	5		11/11/14 18:39	75-15-0	
Chlorobenzene	ND	ug/L	5.0	5		11/11/14 18:39	108-90-7	
Chloroethane	ND	ug/L	5.0	5		11/11/14 18:39	75-00-3	
Chloroform	ND	ug/L	5.0	5		11/11/14 18:39	67-66-3	
Chloromethane	ND	ug/L	5.0	5		11/11/14 18:39	74-87-3	
4-Chlorotoluene	ND	ug/L	5.0	5		11/11/14 18:39	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	5		11/11/14 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		11/11/14 18:39	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		11/11/14 18:39	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	25.0	5		11/11/14 18:39	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	5		11/11/14 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		11/11/14 18:39	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	5		11/11/14 18:39	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	5		11/11/14 18:39	75-35-4	
1,2-Dichloropropane	ND	ug/L	5.0	5		11/11/14 18:39	78-87-5	
Diisopropyl ether	ND	ug/L	5.0	5		11/11/14 18:39	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	500	5		11/11/14 18:39	123-91-1	
Ethylbenzene	**6.6**	ug/L	5.0	5		11/11/14 18:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	5.0	5		11/11/14 18:39	637-92-3	
2-Hexanone	ND	ug/L	50.0	5		11/11/14 18:39	591-78-6	
Isopropylbenzene (Cumene)	**81.8**	ug/L	5.0	5		11/11/14 18:39	98-82-8	
p-Isopropyltoluene	**13.8**	ug/L	5.0	5		11/11/14 18:39	99-87-6	
Methylene chloride	ND	ug/L	5.0	5		11/11/14 18:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		11/11/14 18:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		11/11/14 18:39	1634-04-4	
n-Propylbenzene	**87.0**	ug/L	5.0	5		11/11/14 18:39	103-65-1	
Styrene	ND	ug/L	5.0	5		11/11/14 18:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		11/11/14 18:39	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		11/11/14 18:39	127-18-4	
Toluene	**11.8**	ug/L	5.0	5		11/11/14 18:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		11/11/14 18:39	71-55-6	
Trichloroethene	ND	ug/L	5.0	5		11/11/14 18:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		11/11/14 18:39	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		11/11/14 18:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		11/11/14 18:39	108-67-8	
Vinyl acetate	ND	ug/L	50.0	5		11/11/14 18:39	108-05-4	
Vinyl chloride	ND	ug/L	5.0	5		11/11/14 18:39	75-01-4	
Xylene (Total)	**34.9**	ug/L	15.0	5		11/11/14 18:39	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-156 / GW-01 **Lab ID: 60182085005** Collected: 11/05/14 07:36 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	5		11/11/14 18:39	460-00-4	D3
1,2-Dichloroethane-d4 (S)	96	%	80-120	5		11/11/14 18:39	17060-07-0	
Toluene-d8 (S)	98	%	80-120	5		11/11/14 18:39	2037-26-5	
Preservation pH	**1.0**		0.10	5		11/11/14 18:39		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**6.1**	mg/L	2.5	5		11/11/14 18:39		
Preservation pH	**1.0**		0.10	5		11/11/14 18:39		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		11/08/14 12:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-153 / GW-01 **Lab ID: 60182085006** Collected: 11/05/14 09:27 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:57	68334-30-5	L2
Diesel Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:57	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:57	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:57	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:57	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:57	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:57	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:57	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:57	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:57	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:57	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:57	64742-65-0	H2
TEH as Diesel No.2	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 04:57		
TEH as Diesel No.2	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 13:57		H2
Surrogates								
p-Terphenyl (S)	72	%	29-122	1	11/18/14 00:00	11/19/14 13:57	92-94-4	
p-Terphenyl (S)	88	%	29-122	1	11/07/14 00:00	11/12/14 04:57	92-94-4	
n-Tetracosane (S)	70	%	20-120	1	11/18/14 00:00	11/19/14 13:57	646-31-1	
n-Tetracosane (S)	78	%	20-120	1	11/07/14 00:00	11/12/14 04:57	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/11/14 18:00	11/12/14 17:07	7440-38-2	
Barium	**83.0**	ug/L	10.0	1	11/11/14 18:00	11/12/14 17:07	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 17:07	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 17:07	7440-47-3	
Lead	ND	ug/L	5.0	1	11/11/14 18:00	11/13/14 12:58	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/11/14 18:00	11/12/14 17:07	7782-49-2	
Silver	ND	ug/L	7.0	1	11/11/14 18:00	11/12/14 17:07	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 16:08	7440-38-2	
Barium, Dissolved	**100**	ug/L	10.0	1	11/13/14 14:45	11/14/14 16:08	7440-39-3	D9
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 16:08	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 16:08	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 16:08	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 16:08	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 16:08	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 12:21	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 11:41	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-153 / GW-01 **Lab ID: 60182085006** Collected: 11/05/14 09:27 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	106-46-7	
Diethylphthalate	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	105-67-9	
Dimethylphthalate	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	84-74-2	
2,4-Dinitrophenol	ND	ug/L	57.5	1	11/10/14 00:00	11/14/14 01:38	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38		
4-Nitrophenol	ND	ug/L	57.5	1	11/10/14 00:00	11/14/14 01:38	100-02-7	
Phenol	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	108-95-2	
Pyridine	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	110-86-1	
Quinoline	ND	ug/L	11.5	1	11/10/14 00:00	11/14/14 01:38	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	73	%	10-135	1	11/10/14 00:00	11/14/14 01:38	4165-60-0	
2-Fluorobiphenyl (S)	79	%	19-124	1	11/10/14 00:00	11/14/14 01:38	321-60-8	
Terphenyl-d14 (S)	101	%	24-131	1	11/10/14 00:00	11/14/14 01:38	1718-51-0	
Phenol-d6 (S)	24	%	10-120	1	11/10/14 00:00	11/14/14 01:38	13127-88-3	
2-Fluorophenol (S)	37	%	13-120	1	11/10/14 00:00	11/14/14 01:38	367-12-4	
2,4,6-Tribromophenol (S)	93	%	29-121	1	11/10/14 00:00	11/14/14 01:38	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 20:38	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 20:38	91-57-6	
Naphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 20:38	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 20:38	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	89	%	36-120	1	11/07/14 00:00	11/10/14 20:38	321-60-8	
Terphenyl-d14 (S)	83	%	29-134	1	11/07/14 00:00	11/10/14 20:38	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 01:26	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-153 / GW-01 **Lab ID: 60182085006** Collected: 11/05/14 09:27 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		11/11/14 01:26	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 01:26	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 01:26	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 01:26	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 01:26	135-98-8	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 01:26	75-65-0	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 01:26	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 01:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 01:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 01:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 01:26	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 01:26	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 01:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 01:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 01:26	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 01:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 01:26	107-06-2	
1,2-Dichloroethene (Total)	**6.7**	ug/L	1.0	1		11/11/14 01:26	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 01:26	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 01:26	78-87-5	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 01:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 01:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 01:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 01:26	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 01:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 01:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 01:26	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 01:26	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 01:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 01:26	79-34-5	
Tetrachloroethene	**2.5**	ug/L	1.0	1		11/11/14 01:26	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 01:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 01:26	71-55-6	
Trichloroethene	**1.9**	ug/L	1.0	1		11/11/14 01:26	79-01-6	
Trichlorofluoromethane	**7.9**	ug/L	1.0	1		11/11/14 01:26	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 01:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 01:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 01:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 01:26	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 01:26	123-91-1	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 01:26	108-05-4	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 01:26	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 01:26	110-57-6	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 01:26	994-05-8	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 01:26	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 01:26	637-92-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-153 / GW-01 **Lab ID: 60182085006** Collected: 11/05/14 09:27 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		11/11/14 01:26	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/11/14 01:26	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/11/14 01:26	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 01:26		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 01:26		
Preservation pH	**1.0**		0.10	1		11/11/14 01:26		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		11/08/14 12:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-170 / GW-01 **Lab ID: 60182085007** Collected: 11/05/14 11:41 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:05	68334-30-5	L2
Diesel Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:05	68334-30-5	H2
Fuel Oil	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:05	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:05	68553-00-4	H2
Jet Fuel	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:05	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:05	94114-58-6	H2
Kerosene	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:05	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:05	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:05	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:05	8030-30-6	H2
Motor Oil	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:05	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:05	64742-65-0	H2
TEH as Diesel No.2	**3.6**	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:05		1e
TEH as Diesel No.2	**2.2**	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:05		2e,H2
Surrogates								
p-Terphenyl (S)	120	%	29-122	1	11/07/14 00:00	11/12/14 05:05	92-94-4	
p-Terphenyl (S)	80	%	29-122	1	11/18/14 00:00	11/19/14 14:05	92-94-4	
n-Tetracosane (S)	110	%	20-120	1	11/07/14 00:00	11/12/14 05:05	646-31-1	
n-Tetracosane (S)	74	%	20-120	1	11/18/14 00:00	11/19/14 14:05	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/11/14 18:00	11/12/14 17:09	7440-38-2	
Barium	**95.0**	ug/L	10.0	1	11/11/14 18:00	11/12/14 17:09	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 17:09	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 17:09	7440-47-3	
Lead	ND	ug/L	5.0	1	11/11/14 18:00	11/13/14 13:00	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/11/14 18:00	11/12/14 17:09	7782-49-2	
Silver	ND	ug/L	7.0	1	11/11/14 18:00	11/12/14 17:09	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 16:12	7440-38-2	
Barium, Dissolved	**94.7**	ug/L	10.0	1	11/13/14 14:45	11/14/14 16:12	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 16:12	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 16:12	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 16:12	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 16:12	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 16:12	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 12:23	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 11:44	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-170 / GW-01 **Lab ID: 60182085007** Collected: 11/05/14 11:41 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	106-46-7	
Diethylphthalate	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	105-67-9	
Dimethylphthalate	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	84-74-2	
2,4-Dinitrophenol	ND	ug/L	58.8	1	11/10/14 00:00	11/14/14 01:59	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59		
4-Nitrophenol	ND	ug/L	58.8	1	11/10/14 00:00	11/14/14 01:59	100-02-7	
Phenol	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	108-95-2	
Pyridine	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	110-86-1	
Quinoline	ND	ug/L	11.8	1	11/10/14 00:00	11/14/14 01:59	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	74	%	10-135	1	11/10/14 00:00	11/14/14 01:59	4165-60-0	
2-Fluorobiphenyl (S)	82	%	19-124	1	11/10/14 00:00	11/14/14 01:59	321-60-8	
Terphenyl-d14 (S)	100	%	24-131	1	11/10/14 00:00	11/14/14 01:59	1718-51-0	
Phenol-d6 (S)	27	%	10-120	1	11/10/14 00:00	11/14/14 01:59	13127-88-3	
2-Fluorophenol (S)	39	%	13-120	1	11/10/14 00:00	11/14/14 01:59	367-12-4	
2,4,6-Tribromophenol (S)	96	%	29-121	1	11/10/14 00:00	11/14/14 01:59	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**1.4**	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	208-96-8	
Anthracene	**0.40**	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	207-08-9	
Chrysene	**0.11**	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	53-70-3	
Fluoranthene	**0.18**	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	206-44-0	
Fluorene	**1.5**	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 20:59	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 20:59	91-57-6	
Naphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 20:59	91-20-3	
Phenanthrene	**0.69**	ug/L	0.50	1	11/07/14 00:00	11/10/14 20:59	85-01-8	
Pyrene	**1.0**	ug/L	0.10	1	11/07/14 00:00	11/10/14 20:59	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	74	%	36-120	1	11/07/14 00:00	11/10/14 20:59	321-60-8	
Terphenyl-d14 (S)	75	%	29-134	1	11/07/14 00:00	11/10/14 20:59	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 18:23	67-64-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-170 / GW-01 **Lab ID: 60182085007** Collected: 11/05/14 11:41 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		11/11/14 18:23	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 18:23	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 18:23	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 18:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 18:23	135-98-8	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 18:23	75-65-0	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 18:23	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 18:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 18:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 18:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 18:23	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 18:23	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 18:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 18:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 18:23	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 18:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 18:23	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 18:23	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 18:23	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 18:23	78-87-5	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 18:23	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 18:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 18:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 18:23	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 18:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 18:23	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 18:23	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 18:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 18:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 18:23	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 18:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 18:23	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 18:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 18:23	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 18:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 18:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 18:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 18:23	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 18:23	123-91-1	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 18:23	108-05-4	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 18:23	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 18:23	110-57-6	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 18:23	994-05-8	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 18:23	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 18:23	637-92-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-170 / GW-01 **Lab ID: 60182085007** Collected: 11/05/14 11:41 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		11/11/14 18:23	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/11/14 18:23	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/11/14 18:23	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 18:23		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 18:23		
Preservation pH	**1.0**		0.10	1		11/11/14 18:23		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		11/08/14 12:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: TB-05 **Lab ID: 60182085008** Collected: 11/05/14 07:36 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/10/14 22:44	67-64-1	
Benzene	ND	ug/L	1.0	1		11/10/14 22:44	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/10/14 22:44	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/10/14 22:44	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/10/14 22:44	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/10/14 22:44	135-98-8	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/10/14 22:44	75-65-0	
Carbon disulfide	ND	ug/L	5.0	1		11/10/14 22:44	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/10/14 22:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/10/14 22:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/10/14 22:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/10/14 22:44	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/10/14 22:44	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/10/14 22:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/10/14 22:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/10/14 22:44	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/10/14 22:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/10/14 22:44	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/10/14 22:44	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/10/14 22:44	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/10/14 22:44	78-87-5	
Ethylbenzene	ND	ug/L	1.0	1		11/10/14 22:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/10/14 22:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/10/14 22:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/10/14 22:44	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/10/14 22:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/10/14 22:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/10/14 22:44	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/10/14 22:44	103-65-1	
Styrene	ND	ug/L	1.0	1		11/10/14 22:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/10/14 22:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/10/14 22:44	127-18-4	
Toluene	ND	ug/L	1.0	1		11/10/14 22:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/10/14 22:44	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/10/14 22:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/10/14 22:44	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/10/14 22:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/10/14 22:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/10/14 22:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/10/14 22:44	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/10/14 22:44	123-91-1	
Vinyl acetate	ND	ug/L	10.0	1		11/10/14 22:44	108-05-4	
Acrylonitrile	ND	ug/L	20.0	1		11/10/14 22:44	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/10/14 22:44	110-57-6	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/10/14 22:44	994-05-8	
Diisopropyl ether	ND	ug/L	1.0	1		11/10/14 22:44	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/10/14 22:44	637-92-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: TB-05 **Lab ID: 60182085008** Collected: 11/05/14 07:36 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		11/10/14 22:44	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/10/14 22:44	17060-07-0	
Toluene-d8 (S)	101	%	80-120	1		11/10/14 22:44	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/10/14 22:44		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/10/14 22:44		
Preservation pH	**1.0**		0.10	1		11/10/14 22:44		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-169 / GW-01 **Lab ID: 60182085009** Collected: 11/05/14 12:58 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:13	68334-30-5	L2
Diesel Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:13	68334-30-5	H2
Fuel Oil	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:13	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:13	68553-00-4	H2
Jet Fuel	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:13	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:13	94114-58-6	H2
Kerosene	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:13	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:13	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:13	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:13	8030-30-6	H2
Motor Oil	ND	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:13	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:13	64742-65-0	H2
TEH as Diesel No.2	**3.3**	mg/L	0.42	1	11/07/14 00:00	11/12/14 05:13		1e
TEH as Diesel No.2	**2.2**	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:13		2e,H2
Surrogates								
p-Terphenyl (S)	90	%	29-122	1	11/07/14 00:00	11/12/14 05:13	92-94-4	
p-Terphenyl (S)	72	%	29-122	1	11/18/14 00:00	11/19/14 14:13	92-94-4	
n-Tetracosane (S)	60	%	20-120	1	11/18/14 00:00	11/19/14 14:13	646-31-1	
n-Tetracosane (S)	75	%	20-120	1	11/07/14 00:00	11/12/14 05:13	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**34.9**	ug/L	10.0	1	11/11/14 18:00	11/12/14 17:14	7440-38-2	
Barium	**488**	ug/L	10.0	1	11/11/14 18:00	11/12/14 17:14	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 17:14	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 17:14	7440-47-3	
Lead	ND	ug/L	5.0	1	11/11/14 18:00	11/13/14 13:05	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/11/14 18:00	11/12/14 17:14	7782-49-2	
Silver	ND	ug/L	7.0	1	11/11/14 18:00	11/12/14 17:14	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**33.5**	ug/L	10.0	1	11/13/14 14:45	11/14/14 16:15	7440-38-2	
Barium, Dissolved	**481**	ug/L	10.0	1	11/13/14 14:45	11/14/14 16:15	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 16:15	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 16:15	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 16:15	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 16:15	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 16:15	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 12:25	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 11:46	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-169 / GW-01 **Lab ID: 60182085009** Collected: 11/05/14 12:58 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	106-46-7	
Diethylphthalate	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	105-67-9	
Dimethylphthalate	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	84-74-2	
2,4-Dinitrophenol	ND	ug/L	54.9	1	11/10/14 00:00	11/14/14 02:19	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19		
4-Nitrophenol	ND	ug/L	54.9	1	11/10/14 00:00	11/14/14 02:19	100-02-7	
Phenol	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	108-95-2	
Pyridine	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	110-86-1	
Quinoline	ND	ug/L	11.0	1	11/10/14 00:00	11/14/14 02:19	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	80	%	10-135	1	11/10/14 00:00	11/14/14 02:19	4165-60-0	
2-Fluorobiphenyl (S)	80	%	19-124	1	11/10/14 00:00	11/14/14 02:19	321-60-8	
Terphenyl-d14 (S)	95	%	24-131	1	11/10/14 00:00	11/14/14 02:19	1718-51-0	
Phenol-d6 (S)	28	%	10-120	1	11/10/14 00:00	11/14/14 02:19	13127-88-3	
2-Fluorophenol (S)	43	%	13-120	1	11/10/14 00:00	11/14/14 02:19	367-12-4	
2,4,6-Tribromophenol (S)	93	%	29-121	1	11/10/14 00:00	11/14/14 02:19	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**5.8**	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	83-32-9	
Acenaphthylene	**1.0**	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	208-96-8	
Anthracene	**2.6**	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	207-08-9	
Chrysene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	53-70-3	
Fluoranthene	**0.25**	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	206-44-0	
Fluorene	**9.2**	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	193-39-5	
1-Methylnaphthalene	**139**	ug/L	5.8	10	11/07/14 00:00	11/11/14 15:10	90-12-0	
2-Methylnaphthalene	**215**	ug/L	5.8	10	11/07/14 00:00	11/11/14 15:10	91-57-6	
Naphthalene	**39.0**	ug/L	5.8	10	11/07/14 00:00	11/11/14 15:10	91-20-3	
Phenanthrene	**18.2**	ug/L	0.58	1	11/07/14 00:00	11/10/14 21:19	85-01-8	
Pyrene	**1.2**	ug/L	0.12	1	11/07/14 00:00	11/10/14 21:19	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	80	%	36-120	1	11/07/14 00:00	11/10/14 21:19	321-60-8	
Terphenyl-d14 (S)	79	%	29-134	1	11/07/14 00:00	11/10/14 21:19	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	50.0	5		11/11/14 02:46	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-169 / GW-01 **Lab ID: 60182085009** Collected: 11/05/14 12:58 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**962**	ug/L	5.0	5		11/11/14 02:46	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	5		11/11/14 02:46	75-27-4	
2-Butanone (MEK)	ND	ug/L	50.0	5		11/11/14 02:46	78-93-3	
n-Butylbenzene	**10.3**	ug/L	5.0	5		11/11/14 02:46	104-51-8	
sec-Butylbenzene	**9.9**	ug/L	5.0	5		11/11/14 02:46	135-98-8	
tert-Butyl Alcohol	**128**	ug/L	50.0	5		11/11/14 02:46	75-65-0	
Carbon disulfide	ND	ug/L	25.0	5		11/11/14 02:46	75-15-0	
Chlorobenzene	ND	ug/L	5.0	5		11/11/14 02:46	108-90-7	
Chloroethane	ND	ug/L	5.0	5		11/11/14 02:46	75-00-3	
Chloroform	ND	ug/L	5.0	5		11/11/14 02:46	67-66-3	
Chloromethane	ND	ug/L	5.0	5		11/11/14 02:46	74-87-3	
4-Chlorotoluene	ND	ug/L	5.0	5		11/11/14 02:46	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	5		11/11/14 02:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		11/11/14 02:46	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		11/11/14 02:46	74-95-3	
1,1-Dichloroethane	ND	ug/L	5.0	5		11/11/14 02:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		11/11/14 02:46	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	5		11/11/14 02:46	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	5		11/11/14 02:46	75-35-4	
1,2-Dichloropropane	ND	ug/L	5.0	5		11/11/14 02:46	78-87-5	
Ethylbenzene	**73.2**	ug/L	5.0	5		11/11/14 02:46	100-41-4	
2-Hexanone	ND	ug/L	50.0	5		11/11/14 02:46	591-78-6	
Isopropylbenzene (Cumene)	**39.8**	ug/L	5.0	5		11/11/14 02:46	98-82-8	
p-Isopropyltoluene	**12.8**	ug/L	5.0	5		11/11/14 02:46	99-87-6	
Methylene chloride	ND	ug/L	5.0	5		11/11/14 02:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		11/11/14 02:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		11/11/14 02:46	1634-04-4	
n-Propylbenzene	**29.8**	ug/L	5.0	5		11/11/14 02:46	103-65-1	
Styrene	ND	ug/L	5.0	5		11/11/14 02:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		11/11/14 02:46	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		11/11/14 02:46	127-18-4	
Toluene	**23.2**	ug/L	5.0	5		11/11/14 02:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		11/11/14 02:46	71-55-6	
Trichloroethene	ND	ug/L	5.0	5		11/11/14 02:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		11/11/14 02:46	75-69-4	
1,2,4-Trimethylbenzene	**116**	ug/L	5.0	5		11/11/14 02:46	95-63-6	
1,3,5-Trimethylbenzene	**15.0**	ug/L	5.0	5		11/11/14 02:46	108-67-8	
Vinyl chloride	ND	ug/L	5.0	5		11/11/14 02:46	75-01-4	
Xylene (Total)	**119**	ug/L	15.0	5		11/11/14 02:46	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	500	5		11/11/14 02:46	123-91-1	
Vinyl acetate	ND	ug/L	50.0	5		11/11/14 02:46	108-05-4	
Acrylonitrile	ND	ug/L	100	5		11/11/14 02:46	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	25.0	5		11/11/14 02:46	110-57-6	
tert-Amylmethyl ether	ND	ug/L	5.0	5		11/11/14 02:46	994-05-8	
Diisopropyl ether	ND	ug/L	5.0	5		11/11/14 02:46	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	5.0	5		11/11/14 02:46	637-92-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-169 / GW-01 **Lab ID: 60182085009** Collected: 11/05/14 12:58 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	5		11/11/14 02:46	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	5		11/11/14 02:46	17060-07-0	
Toluene-d8 (S)	99	%	80-120	5		11/11/14 02:46	2037-26-5	
Preservation pH	**1.0**		0.10	5		11/11/14 02:46		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**4.5**	mg/L	2.5	5		11/11/14 02:46		
Preservation pH	**1.0**		0.10	5		11/11/14 02:46		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		11/08/14 12:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-162 / GW-01 **Lab ID: 60182085010** Collected: 11/05/14 13:57 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 05:21	68334-30-5	L2
Diesel Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:20	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 05:21	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:20	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 05:21	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:20	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 05:21	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:20	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 05:21	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:20	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/07/14 00:00	11/12/14 05:21	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:20	64742-65-0	H2
TEH as Diesel No.2	**0.45**	mg/L	0.40	1	11/07/14 00:00	11/12/14 05:21		1e
TEH as Diesel No.2	ND	mg/L	0.40	1	11/18/14 00:00	11/19/14 14:20		H2
Surrogates								
p-Terphenyl (S)	73	%	29-122	1	11/18/14 00:00	11/19/14 14:20	92-94-4	
p-Terphenyl (S)	96	%	29-122	1	11/07/14 00:00	11/12/14 05:21	92-94-4	
n-Tetracosane (S)	90	%	20-120	1	11/07/14 00:00	11/12/14 05:21	646-31-1	
n-Tetracosane (S)	70	%	20-120	1	11/18/14 00:00	11/19/14 14:20	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/11/14 18:00	11/12/14 17:11	7440-38-2	
Barium	**29.4**	ug/L	10.0	1	11/11/14 18:00	11/12/14 17:11	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 17:11	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/11/14 18:00	11/12/14 17:11	7440-47-3	
Lead	ND	ug/L	5.0	1	11/11/14 18:00	11/13/14 13:03	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/11/14 18:00	11/12/14 17:11	7782-49-2	
Silver	ND	ug/L	7.0	1	11/11/14 18:00	11/12/14 17:11	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 16:19	7440-38-2	
Barium, Dissolved	**28.0**	ug/L	10.0	1	11/13/14 14:45	11/14/14 16:19	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 16:19	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 16:19	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 16:19	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 16:19	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 16:19	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/08/14 14:15	11/10/14 12:27	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/11/14 12:00	11/12/14 11:48	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-162 / GW-01 **Lab ID: 60182085010** Collected: 11/05/14 13:57 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	106-46-7	
Diethylphthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	105-67-9	
Dimethylphthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	84-74-2	
2,4-Dinitrophenol	ND	ug/L	55.6	1	11/10/14 00:00	11/14/14 02:40	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40		
4-Nitrophenol	ND	ug/L	55.6	1	11/10/14 00:00	11/14/14 02:40	100-02-7	
Phenol	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	108-95-2	
Pyridine	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	110-86-1	
Quinoline	ND	ug/L	11.1	1	11/10/14 00:00	11/14/14 02:40	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	64	%	10-135	1	11/10/14 00:00	11/14/14 02:40	4165-60-0	
2-Fluorobiphenyl (S)	69	%	19-124	1	11/10/14 00:00	11/14/14 02:40	321-60-8	
Terphenyl-d14 (S)	94	%	24-131	1	11/10/14 00:00	11/14/14 02:40	1718-51-0	
Phenol-d6 (S)	22	%	10-120	1	11/10/14 00:00	11/14/14 02:40	13127-88-3	
2-Fluorophenol (S)	34	%	13-120	1	11/10/14 00:00	11/14/14 02:40	367-12-4	
2,4,6-Tribromophenol (S)	86	%	29-121	1	11/10/14 00:00	11/14/14 02:40	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 21:40	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 21:40	91-57-6	
Naphthalene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 21:40	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/07/14 00:00	11/10/14 21:40	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/07/14 00:00	11/10/14 21:40	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73	%	36-120	1	11/07/14 00:00	11/10/14 21:40	321-60-8	
Terphenyl-d14 (S)	76	%	29-134	1	11/07/14 00:00	11/10/14 21:40	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 01:42	67-64-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-162 / GW-01 **Lab ID: 60182085010** Collected: 11/05/14 13:57 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		11/11/14 01:42	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 01:42	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 01:42	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 01:42	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 01:42	135-98-8	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 01:42	75-65-0	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 01:42	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 01:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 01:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 01:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 01:42	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 01:42	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 01:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 01:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 01:42	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 01:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 01:42	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 01:42	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 01:42	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 01:42	78-87-5	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 01:42	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 01:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 01:42	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 01:42	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 01:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 01:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 01:42	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 01:42	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 01:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 01:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 01:42	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 01:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 01:42	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 01:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 01:42	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 01:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 01:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 01:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 01:42	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 01:42	123-91-1	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 01:42	108-05-4	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 01:42	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 01:42	110-57-6	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 01:42	994-05-8	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 01:42	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 01:42	637-92-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: MW-162 / GW-01 **Lab ID: 60182085010** Collected: 11/05/14 13:57 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		11/11/14 01:42	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/11/14 01:42	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/11/14 01:42	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 01:42		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 01:42		
Preservation pH	**1.0**		0.10	1		11/11/14 01:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		11/08/14 12:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: TB-06 **Lab ID: 60182085011** Collected: 11/05/14 12:58 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/10/14 22:12	67-64-1	
Benzene	ND	ug/L	1.0	1		11/10/14 22:12	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/10/14 22:12	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/10/14 22:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/10/14 22:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/10/14 22:12	135-98-8	
tert-Butyl Alcohol	**12.7**	ug/L	10.0	1		11/10/14 22:12	75-65-0	
Carbon disulfide	ND	ug/L	5.0	1		11/10/14 22:12	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/10/14 22:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/10/14 22:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/10/14 22:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/10/14 22:12	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/10/14 22:12	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/10/14 22:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/10/14 22:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/10/14 22:12	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/10/14 22:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/10/14 22:12	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/10/14 22:12	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/10/14 22:12	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/10/14 22:12	78-87-5	
Ethylbenzene	ND	ug/L	1.0	1		11/10/14 22:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/10/14 22:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/10/14 22:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/10/14 22:12	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/10/14 22:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/10/14 22:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/10/14 22:12	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/10/14 22:12	103-65-1	
Styrene	ND	ug/L	1.0	1		11/10/14 22:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/10/14 22:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/10/14 22:12	127-18-4	
Toluene	ND	ug/L	1.0	1		11/10/14 22:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/10/14 22:12	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/10/14 22:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/10/14 22:12	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/10/14 22:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/10/14 22:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/10/14 22:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/10/14 22:12	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/10/14 22:12	123-91-1	
Vinyl acetate	ND	ug/L	10.0	1		11/10/14 22:12	108-05-4	
Acrylonitrile	ND	ug/L	20.0	1		11/10/14 22:12	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/10/14 22:12	110-57-6	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/10/14 22:12	994-05-8	
Diisopropyl ether	ND	ug/L	1.0	1		11/10/14 22:12	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/10/14 22:12	637-92-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182085

Sample: TB-06 **Lab ID: 60182085011** Collected: 11/05/14 12:58 Received: 11/06/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		11/10/14 22:12	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/10/14 22:12	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/10/14 22:12	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/10/14 22:12		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/10/14 22:12		
Preservation pH	**1.0**		0.10	1		11/10/14 22:12		

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: MERP/9027 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

METHOD BLANK: 1475830 Matrix: Water
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/10/14 11:58	

LABORATORY CONTROL SAMPLE: 1475831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1475832 1475833

Parameter	Units	60182085003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.5	93	90	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: MERP/9035 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

METHOD BLANK: 1476545 Matrix: Water
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	11/12/14 11:19	

LABORATORY CONTROL SAMPLE: 1476546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1476671 1476672

Parameter	Units	60182085001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	3.7	3.7	73	73	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: MPRP/29740 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

METHOD BLANK: 1476954 — Matrix: Water
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	11/12/14 16:45	
Barium	ug/L	ND	10.0	11/12/14 16:45	
Cadmium	ug/L	ND	5.0	11/12/14 16:45	
Chromium	ug/L	ND	5.0	11/12/14 16:45	
Lead	ug/L	ND	5.0	11/13/14 12:39	
Selenium	ug/L	ND	15.0	11/12/14 16:45	
Silver	ug/L	ND	7.0	11/12/14 16:45	

LABORATORY CONTROL SAMPLE: 1476955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	992	99	80-120	
Barium	ug/L	1000	1020	102	80-120	
Cadmium	ug/L	1000	989	99	80-120	
Chromium	ug/L	1000	970	97	80-120	
Lead	ug/L	1000	961	96	80-120	
Selenium	ug/L	1000	1000	100	80-120	
Silver	ug/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1476956 1476957

Parameter	Units	60182085001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	10.5	1000	1000	1020	1050	101	104	75-125	3	20	
Barium	ug/L	222	1000	1000	1220	1260	100	104	75-125	4	20	
Cadmium	ug/L	ND	1000	1000	996	1020	100	102	75-125	3	20	
Chromium	ug/L	ND	1000	1000	947	969	95	97	75-125	2	20	
Lead	ug/L	ND	1000	1000	940	957	94	95	75-125	2	20	
Selenium	ug/L	ND	1000	1000	1000	1040	100	104	75-125	3	20	
Silver	ug/L	ND	500	500	480	494	96	98	75-125	3	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: MPRP/29781 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

METHOD BLANK: 1478088 — Matrix: Water
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	10.0	11/14/14 14:44	
Barium, Dissolved	ug/L	ND	10.0	11/14/14 14:44	
Cadmium, Dissolved	ug/L	ND	1.0	11/14/14 14:44	
Chromium, Dissolved	ug/L	ND	5.0	11/14/14 14:44	
Lead, Dissolved	ug/L	ND	5.0	11/14/14 14:44	
Selenium, Dissolved	ug/L	ND	15.0	11/14/14 14:44	
Silver, Dissolved	ug/L	ND	7.0	11/14/14 14:44	

LABORATORY CONTROL SAMPLE: 1478089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	948	95	80-120	
Barium, Dissolved	ug/L	1000	1000	100	80-120	
Cadmium, Dissolved	ug/L	1000	957	96	80-120	
Chromium, Dissolved	ug/L	1000	1000	100	80-120	
Lead, Dissolved	ug/L	1000	960	96	80-120	
Selenium, Dissolved	ug/L	1000	956	96	80-120	
Silver, Dissolved	ug/L	500	487	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1478091 1478092

Parameter	Units	60182189011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	ND	1000	1000	987	992	99	99	75-125	0	20	
Barium, Dissolved	ug/L	29.6	1000	1000	1040	1040	101	101	75-125	0	20	
Cadmium, Dissolved	ug/L	1.1	1000	1000	976	981	97	98	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	986	986	99	99	75-125	0	20	
Lead, Dissolved	ug/L	ND	1000	1000	918	922	91	92	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	996	1000	99	100	75-125	1	20	
Silver, Dissolved	ug/L	ND	500	500	499	499	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: MSV/65653 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60182085001, 60182085004, 60182085006, 60182085008, 60182085009, 60182085010, 60182085011

METHOD BLANK: 1476204 Matrix: Water
Associated Lab Samples: 60182085001, 60182085004, 60182085006, 60182085008, 60182085009, 60182085010, 60182085011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/10/14 21:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/10/14 21:56	
1,1-Dichloroethane	ug/L	ND	1.0	11/10/14 21:56	
1,1-Dichloroethene	ug/L	ND	1.0	11/10/14 21:56	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/10/14 21:56	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/10/14 21:56	
1,2-Dichloroethane	ug/L	ND	1.0	11/10/14 21:56	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/10/14 21:56	
1,2-Dichloropropane	ug/L	ND	1.0	11/10/14 21:56	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/10/14 21:56	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/10/14 21:56	
2-Butanone (MEK)	ug/L	ND	10.0	11/10/14 21:56	
2-Hexanone	ug/L	ND	10.0	11/10/14 21:56	
4-Chlorotoluene	ug/L	ND	1.0	11/10/14 21:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/10/14 21:56	
Acetone	ug/L	ND	10.0	11/10/14 21:56	
Acrylonitrile	ug/L	ND	20.0	11/10/14 21:56	
Benzene	ug/L	ND	1.0	11/10/14 21:56	
Bromodichloromethane	ug/L	ND	1.0	11/10/14 21:56	
Carbon disulfide	ug/L	ND	5.0	11/10/14 21:56	
Chlorobenzene	ug/L	ND	1.0	11/10/14 21:56	
Chloroethane	ug/L	ND	1.0	11/10/14 21:56	
Chloroform	ug/L	ND	1.0	11/10/14 21:56	
Chloromethane	ug/L	ND	1.0	11/10/14 21:56	
Dibromochloromethane	ug/L	ND	1.0	11/10/14 21:56	
Dibromomethane	ug/L	ND	1.0	11/10/14 21:56	
Diisopropyl ether	ug/L	ND	1.0	11/10/14 21:56	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/10/14 21:56	
Ethylbenzene	ug/L	ND	1.0	11/10/14 21:56	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/10/14 21:56	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/10/14 21:56	
Methylene chloride	ug/L	ND	1.0	11/10/14 21:56	
n-Butylbenzene	ug/L	ND	1.0	11/10/14 21:56	
n-Propylbenzene	ug/L	ND	1.0	11/10/14 21:56	
p-Isopropyltoluene	ug/L	ND	1.0	11/10/14 21:56	
sec-Butylbenzene	ug/L	ND	1.0	11/10/14 21:56	
Styrene	ug/L	ND	1.0	11/10/14 21:56	
tert-Amylmethyl ether	ug/L	ND	1.0	11/10/14 21:56	
tert-Butyl Alcohol	ug/L	ND	10.0	11/10/14 21:56	
Tetrachloroethene	ug/L	ND	1.0	11/10/14 21:56	
Toluene	ug/L	ND	1.0	11/10/14 21:56	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

METHOD BLANK: 1476204 Matrix: Water
Associated Lab Samples: 60182085001, 60182085004, 60182085006, 60182085008, 60182085009, 60182085010, 60182085011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/10/14 21:56	
Trichloroethene	ug/L	ND	1.0	11/10/14 21:56	
Trichlorofluoromethane	ug/L	ND	1.0	11/10/14 21:56	
Vinyl acetate	ug/L	ND	10.0	11/10/14 21:56	
Vinyl chloride	ug/L	ND	1.0	11/10/14 21:56	
Xylene (Total)	ug/L	ND	3.0	11/10/14 21:56	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/10/14 21:56	
4-Bromofluorobenzene (S)	%	101	80-120	11/10/14 21:56	
Toluene-d8 (S)	%	100	80-120	11/10/14 21:56	

LABORATORY CONTROL SAMPLE: 1476205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	73-124	
1,1-Dichloroethane	ug/L	20	19.3	97	77-120	
1,1-Dichloroethene	ug/L	20	18.3	91	78-126	
1,2,4-Trimethylbenzene	ug/L	20	19.9	99	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	21.4	107	80-127	
1,2-Dichloroethane	ug/L	20	19.6	98	77-123	
1,2-Dichloroethene (Total)	ug/L	40	38.1	95	80-120	
1,2-Dichloropropane	ug/L	20	19.4	97	80-121	
1,3,5-Trimethylbenzene	ug/L	20	19.9	100	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	102	102	44-160	
2-Butanone (MEK)	ug/L	100	95.3	95	52-145	
2-Hexanone	ug/L	100	104	104	57-139	
4-Chlorotoluene	ug/L	20	19.3	97	80-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.6	100	71-131	
Acetone	ug/L	100	94.5	95	32-155	
Acrylonitrile	ug/L	200	206	103	75-125	
Benzene	ug/L	20	19.2	96	80-120	
Bromodichloromethane	ug/L	20	20.2	101	80-120	
Carbon disulfide	ug/L	20	20.1	101	65-125	
Chlorobenzene	ug/L	20	19.8	99	80-120	
Chloroethane	ug/L	20	17.5	87	55-137	
Chloroform	ug/L	20	19.6	98	79-120	
Chloromethane	ug/L	20	18.9	94	22-138	
Dibromochloromethane	ug/L	20	19.5	98	80-120	
Dibromomethane	ug/L	20	21.1	106	80-122	
Diisopropyl ether	ug/L	20	19.7	99	70-123	
Ethyl-tert-butyl ether	ug/L	20	19.4	97	73-120	
Ethylbenzene	ug/L	20	20.0	100	80-121	
Isopropylbenzene (Cumene)	ug/L	20	20.0	100	80-136	
Methyl-tert-butyl ether	ug/L	20	19.6	98	74-125	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

LABORATORY CONTROL SAMPLE: 1476205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene chloride	ug/L	20	20.4	102	73-126	
n-Butylbenzene	ug/L	20	19.8	99	83-123	
n-Propylbenzene	ug/L	20	19.6	98	80-122	
p-Isopropyltoluene	ug/L	20	19.5	98	80-124	
sec-Butylbenzene	ug/L	20	19.7	98	80-129	
Styrene	ug/L	20	20.9	105	80-120	
tert-Amylmethyl ether	ug/L	20	20.0	100	74-120	
tert-Butyl Alcohol	ug/L	100	98.1	98	50-139	
Tetrachloroethene	ug/L	20	19.0	95	80-121	
Toluene	ug/L	20	19.4	97	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	21.7	108	59-133	
Trichloroethene	ug/L	20	19.6	98	80-120	
Trichlorofluoromethane	ug/L	20	19.3	96	67-120	
Vinyl acetate	ug/L	20	18.7	93	45-160	
Vinyl chloride	ug/L	20	19.8	99	59-120	
Xylene (Total)	ug/L	60	60.4	101	80-121	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: MSV/65690 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60182085002, 60182085003, 60182085005, 60182085007

METHOD BLANK: 1476758 Matrix: Water
Associated Lab Samples: 60182085002, 60182085003, 60182085005, 60182085007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/11/14 17:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/11/14 17:03	
1,1-Dichloroethane	ug/L	ND	1.0	11/11/14 17:03	
1,1-Dichloroethene	ug/L	ND	1.0	11/11/14 17:03	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/11/14 17:03	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/11/14 17:03	
1,2-Dichloroethane	ug/L	ND	1.0	11/11/14 17:03	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/11/14 17:03	
1,2-Dichloropropane	ug/L	ND	1.0	11/11/14 17:03	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/11/14 17:03	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/11/14 17:03	
2-Butanone (MEK)	ug/L	ND	10.0	11/11/14 17:03	
2-Hexanone	ug/L	ND	10.0	11/11/14 17:03	
4-Chlorotoluene	ug/L	ND	1.0	11/11/14 17:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/11/14 17:03	
Acetone	ug/L	ND	10.0	11/11/14 17:03	
Acrylonitrile	ug/L	ND	20.0	11/11/14 17:03	
Benzene	ug/L	ND	1.0	11/11/14 17:03	
Bromodichloromethane	ug/L	ND	1.0	11/11/14 17:03	
Carbon disulfide	ug/L	ND	5.0	11/11/14 17:03	
Chlorobenzene	ug/L	ND	1.0	11/11/14 17:03	
Chloroethane	ug/L	ND	1.0	11/11/14 17:03	
Chloroform	ug/L	ND	1.0	11/11/14 17:03	
Chloromethane	ug/L	ND	1.0	11/11/14 17:03	
Dibromochloromethane	ug/L	ND	1.0	11/11/14 17:03	
Dibromomethane	ug/L	ND	1.0	11/11/14 17:03	
Diisopropyl ether	ug/L	ND	1.0	11/11/14 17:03	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/11/14 17:03	
Ethylbenzene	ug/L	ND	1.0	11/11/14 17:03	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/11/14 17:03	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/11/14 17:03	
Methylene chloride	ug/L	ND	1.0	11/11/14 17:03	
n-Butylbenzene	ug/L	ND	1.0	11/11/14 17:03	
n-Propylbenzene	ug/L	ND	1.0	11/11/14 17:03	
p-Isopropyltoluene	ug/L	ND	1.0	11/11/14 17:03	
sec-Butylbenzene	ug/L	ND	1.0	11/11/14 17:03	
Styrene	ug/L	ND	1.0	11/11/14 17:03	
tert-Amylmethyl ether	ug/L	ND	1.0	11/11/14 17:03	
tert-Butyl Alcohol	ug/L	ND	10.0	11/11/14 17:03	
Tetrachloroethene	ug/L	ND	1.0	11/11/14 17:03	
Toluene	ug/L	ND	1.0	11/11/14 17:03	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

METHOD BLANK: 1476758 Matrix: Water
Associated Lab Samples: 60182085002, 60182085003, 60182085005, 60182085007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/11/14 17:03	
Trichloroethene	ug/L	ND	1.0	11/11/14 17:03	
Trichlorofluoromethane	ug/L	ND	1.0	11/11/14 17:03	
Vinyl acetate	ug/L	ND	10.0	11/11/14 17:03	
Vinyl chloride	ug/L	ND	1.0	11/11/14 17:03	
Xylene (Total)	ug/L	ND	3.0	11/11/14 17:03	
1,2-Dichloroethane-d4 (S)	%	98	80-120	11/11/14 17:03	
4-Bromofluorobenzene (S)	%	97	80-120	11/11/14 17:03	
Toluene-d8 (S)	%	101	80-120	11/11/14 17:03	

LABORATORY CONTROL SAMPLE: 1476759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	100	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	73-124	
1,1-Dichloroethane	ug/L	20	19.8	99	77-120	
1,1-Dichloroethene	ug/L	20	19.2	96	78-126	
1,2,4-Trimethylbenzene	ug/L	20	20.4	102	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	20.9	104	80-127	
1,2-Dichloroethane	ug/L	20	19.5	97	77-123	
1,2-Dichloroethene (Total)	ug/L	40	38.0	95	80-120	
1,2-Dichloropropane	ug/L	20	19.2	96	80-121	
1,3,5-Trimethylbenzene	ug/L	20	20.7	103	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	93.4J	93	44-160	
2-Butanone (MEK)	ug/L	100	93.8	94	52-145	
2-Hexanone	ug/L	100	100	100	57-139	
4-Chlorotoluene	ug/L	20	19.7	99	80-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.4	98	71-131	
Acetone	ug/L	100	93.4	93	32-155	
Acrylonitrile	ug/L	200	201	100	75-125	
Benzene	ug/L	20	19.7	99	80-120	
Bromodichloromethane	ug/L	20	20.3	102	80-120	
Carbon disulfide	ug/L	20	20.7	104	65-125	
Chlorobenzene	ug/L	20	20.1	100	80-120	
Chloroethane	ug/L	20	18.3	91	55-137	
Chloroform	ug/L	20	19.8	99	79-120	
Chloromethane	ug/L	20	19.8	99	22-138	
Dibromochloromethane	ug/L	20	20.1	100	80-120	
Dibromomethane	ug/L	20	20.8	104	80-122	
Diisopropyl ether	ug/L	20	19.7	99	70-123	
Ethyl-tert-butyl ether	ug/L	20	19.6	98	73-120	
Ethylbenzene	ug/L	20	19.8	99	80-121	
Isopropylbenzene (Cumene)	ug/L	20	20.5	102	80-136	
Methyl-tert-butyl ether	ug/L	20	19.9	100	74-125	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

LABORATORY CONTROL SAMPLE: 1476759

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene chloride	ug/L	20	20.5	103	73-126	
n-Butylbenzene	ug/L	20	20.7	103	83-123	
n-Propylbenzene	ug/L	20	20.5	102	80-122	
p-Isopropyltoluene	ug/L	20	20.2	101	80-124	
sec-Butylbenzene	ug/L	20	20.5	103	80-129	
Styrene	ug/L	20	21.2	106	80-120	
tert-Amylmethyl ether	ug/L	20	20.2	101	74-120	
tert-Butyl Alcohol	ug/L	100	99.4	99	50-139	
Tetrachloroethene	ug/L	20	19.7	98	80-121	
Toluene	ug/L	20	19.8	99	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	22.0	110	59-133	
Trichloroethene	ug/L	20	20.6	103	80-120	
Trichlorofluoromethane	ug/L	20	20.4	102	67-120	
Vinyl acetate	ug/L	20	18.7	94	45-160	
Vinyl chloride	ug/L	20	20.6	103	59-120	
Xylene (Total)	ug/L	60	61.0	102	80-121	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: MSV/65671 Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60182085001, 60182085004, 60182085006, 60182085008, 60182085009, 60182085010, 60182085011

METHOD BLANK: 1476381 Matrix: Water
Associated Lab Samples: 60182085001, 60182085004, 60182085006, 60182085008, 60182085009, 60182085010, 60182085011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/10/14 21:56	

LABORATORY CONTROL SAMPLE: 1476382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.4	86	62-121	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: MSV/65698 | Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 | Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60182085002, 60182085003, 60182085005, 60182085007

METHOD BLANK: 1477061 | Matrix: Water
Associated Lab Samples: 60182085002, 60182085003, 60182085005, 60182085007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/11/14 17:03	

LABORATORY CONTROL SAMPLE: 1477062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.6	89	62-121	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: OEXT/47040 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

METHOD BLANK: 1476088 | Matrix: Water
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichlorobenzene	ug/L	ND	10.0	11/13/14 22:13	
1,3-Dichlorobenzene	ug/L	ND	10.0	11/13/14 22:13	
1,4-Dichlorobenzene	ug/L	ND	10.0	11/13/14 22:13	
2,4-Dimethylphenol	ug/L	ND	10.0	11/13/14 22:13	
2,4-Dinitrophenol	ug/L	ND	50.0	11/13/14 22:13	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	11/13/14 22:13	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/13/14 22:13	
4-Nitrophenol	ug/L	ND	50.0	11/13/14 22:13	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	11/13/14 22:13	
Di-n-butylphthalate	ug/L	ND	10.0	11/13/14 22:13	
Diethylphthalate	ug/L	ND	10.0	11/13/14 22:13	
Dimethylphthalate	ug/L	ND	10.0	11/13/14 22:13	
Phenol	ug/L	ND	10.0	11/13/14 22:13	
Pyridine	ug/L	ND	10.0	11/13/14 22:13	
Quinoline	ug/L	ND	10.0	11/13/14 22:13	
2,4,6-Tribromophenol (S)	%	82	29-121	11/13/14 22:13	
2-Fluorobiphenyl (S)	%	72	19-124	11/13/14 22:13	
2-Fluorophenol (S)	%	41	13-120	11/13/14 22:13	
Nitrobenzene-d5 (S)	%	65	10-135	11/13/14 22:13	
Phenol-d6 (S)	%	27	10-120	11/13/14 22:13	
Terphenyl-d14 (S)	%	96	24-131	11/13/14 22:13	

LABORATORY CONTROL SAMPLE: 1476089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	37.8	76	45-120	
1,3-Dichlorobenzene	ug/L	50	37.0	74	44-120	
1,4-Dichlorobenzene	ug/L	50	37.2	74	44-120	
2,4-Dimethylphenol	ug/L	50	40.7	81	35-120	
2,4-Dinitrophenol	ug/L	50	45.7J	91	21-120	
2-Methylphenol(o-Cresol)	ug/L	50	36.4	73	40-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.5	67	34-120	
4-Nitrophenol	ug/L	50	18.3J	37	10-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	47.3	95	52-123	
Di-n-butylphthalate	ug/L	50	45.7	91	49-125	
Diethylphthalate	ug/L	50	42.1	84	53-120	
Dimethylphthalate	ug/L	50	41.6	83	52-120	
Phenol	ug/L	50	17.9	36	12-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

LABORATORY CONTROL SAMPLE: 1476089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyridine	ug/L	50	8.7J	17	10-120	
Quinoline	ug/L	50	36.1	72	37-120	
2,4,6-Tribromophenol (S)	%			87	29-121	
2-Fluorobiphenyl (S)	%			77	19-124	
2-Fluorophenol (S)	%			42	13-120	
Nitrobenzene-d5 (S)	%			74	10-135	
Phenol-d6 (S)	%			28	10-120	
Terphenyl-d14 (S)	%			91	24-131	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: OEXT/47019 | Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C | Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

METHOD BLANK: 1474794 | Matrix: Water
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.50	11/10/14 13:21	
2-Methylnaphthalene	ug/L	ND	0.50	11/10/14 13:21	
Acenaphthene	ug/L	ND	0.10	11/10/14 13:21	
Acenaphthylene	ug/L	ND	0.10	11/10/14 13:21	
Anthracene	ug/L	ND	0.10	11/10/14 13:21	
Benzo(a)anthracene	ug/L	ND	0.10	11/10/14 13:21	
Benzo(a)pyrene	ug/L	ND	0.10	11/10/14 13:21	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/10/14 13:21	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/10/14 13:21	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/10/14 13:21	
Chrysene	ug/L	ND	0.10	11/10/14 13:21	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/10/14 13:21	
Fluoranthene	ug/L	ND	0.10	11/10/14 13:21	
Fluorene	ug/L	ND	0.10	11/10/14 13:21	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/10/14 13:21	
Naphthalene	ug/L	ND	0.50	11/10/14 13:21	
Phenanthrene	ug/L	ND	0.50	11/10/14 13:21	
Pyrene	ug/L	ND	0.10	11/10/14 13:21	
2-Fluorobiphenyl (S)	%	79	36-120	11/10/14 13:21	
Terphenyl-d14 (S)	%	71	29-134	11/10/14 13:21	

LABORATORY CONTROL SAMPLE: 1474795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	8.9	89	59-120	
2-Methylnaphthalene	ug/L	10	8.9	89	52-120	
Acenaphthene	ug/L	10	8.5	85	45-120	
Acenaphthylene	ug/L	10	8.8	88	42-120	
Anthracene	ug/L	10	8.4	84	39-120	
Benzo(a)anthracene	ug/L	10	8.3	83	40-125	
Benzo(a)pyrene	ug/L	10	7.9	79	39-122	
Benzo(b)fluoranthene	ug/L	10	7.9	79	33-134	
Benzo(g,h,i)perylene	ug/L	10	6.9	69	27-126	
Benzo(k)fluoranthene	ug/L	10	8.3	83	43-123	
Chrysene	ug/L	10	7.3	73	44-120	
Dibenz(a,h)anthracene	ug/L	10	6.9	69	21-129	
Fluoranthene	ug/L	10	8.4	84	45-126	
Fluorene	ug/L	10	8.6	86	44-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

LABORATORY CONTROL SAMPLE: 1474795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	10	6.9	69	25-127	
Naphthalene	ug/L	10	8.7	87	44-120	
Phenanthrene	ug/L	10	8.3	83	43-120	
Pyrene	ug/L	10	8.0	80	39-120	
2-Fluorobiphenyl (S)	%			83	36-120	
Terphenyl-d14 (S)	%			74	29-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1474796 1474797

Parameter	Units	60182101004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	40.2	10	10	40.4	57.5	2	173	59-120	35	30	M1,R1
2-Methylnaphthalene	ug/L	ND	10	10	7.6	8.8	75	87	52-120	14	30	
Acenaphthene	ug/L	0.79	10	10	7.6	8.8	68	80	40-120	16	37	
Acenaphthylene	ug/L	0.38	10	10	8.4	9.5	80	91	41-120	12	32	
Anthracene	ug/L	ND	10	10	8.0	8.3	80	82	33-121	3	26	
Benzo(a)anthracene	ug/L	ND	10	10	8.5	8.5	85	85	40-125	0	28	
Benzo(a)pyrene	ug/L	ND	10	10	7.7	8.0	77	80	43-122	5	29	
Benzo(b)fluoranthene	ug/L	ND	10	10	7.6	8.0	76	80	34-130	4	38	
Benzo(g,h,i)perylene	ug/L	ND	10	10	7.3	7.8	73	78	42-127	6	29	
Benzo(k)fluoranthene	ug/L	ND	10	10	7.3	7.4	73	74	49-120	2	27	
Chrysene	ug/L	ND	10	10	6.8	7.2	68	72	47-120	6	25	
Dibenz(a,h)anthracene	ug/L	ND	10	10	7.3	8.0	73	80	40-120	9	25	
Fluoranthene	ug/L	0.16	10	10	8.3	8.5	82	83	45-125	2	31	
Fluorene	ug/L	1.4	10	10	6.7	10.0	53	86	42-120	39	27	R1
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	7.3	7.9	73	79	34-130	8	24	
Naphthalene	ug/L	0.82	10	10	8.9	11.0	81	102	24-128	21	25	
Phenanthrene	ug/L	0.47	10	10	8.1	8.4	76	79	38-120	3	29	
Pyrene	ug/L	0.11	10	10	7.1	7.4	70	73	44-120	4	34	
2-Fluorobiphenyl (S)	%						70	80	36-120			
Terphenyl-d14 (S)	%						69	70	29-134			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: OEXT/47021 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

METHOD BLANK: 1475015 Matrix: Water
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	11/12/14 04:10	
Fuel Oil	mg/L	ND	0.40	11/12/14 04:10	
Jet Fuel	mg/L	ND	0.40	11/12/14 04:10	
Kerosene	mg/L	ND	0.40	11/12/14 04:10	
Mineral Spirits	mg/L	ND	0.40	11/12/14 04:10	
Motor Oil	mg/L	ND	0.40	11/12/14 04:10	
TEH as Diesel No.2	mg/L	ND	0.40	11/12/14 04:10	
n-Tetracosane (S)	%	85	20-120	11/12/14 04:10	
p-Terphenyl (S)	%	87	29-122	11/12/14 04:10	

LABORATORY CONTROL SAMPLE: 1475016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	7.3	59	60-122	L0
n-Tetracosane (S)	%			49	20-120	
p-Terphenyl (S)	%			70	29-122	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: OEXT/47169 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

METHOD BLANK: 1480737 Matrix: Water
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	11/19/14 13:12	
Fuel Oil	mg/L	ND	0.40	11/19/14 13:12	
Jet Fuel	mg/L	ND	0.40	11/19/14 13:12	
Kerosene	mg/L	ND	0.40	11/19/14 13:12	
Mineral Spirits	mg/L	ND	0.40	11/19/14 13:12	
Motor Oil	mg/L	ND	0.40	11/19/14 13:12	
TEH as Diesel No.2	mg/L	ND	0.40	11/19/14 13:12	
n-Tetracosane (S)	%	72	20-120	11/19/14 13:12	
p-Terphenyl (S)	%	73	29-122	11/19/14 13:12	

LABORATORY CONTROL SAMPLE: 1480738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	8.7	69	60-122	
n-Tetracosane (S)	%			70	20-120	
p-Terphenyl (S)	%			80	29-122	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182085

QC Batch: WET/51430 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60182085001, 60182085002, 60182085003, 60182085005, 60182085006, 60182085007, 60182085009, 60182085010

SAMPLE DUPLICATE: 1475952

Parameter	Units	60182085001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	0	5	H6

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QUALIFIERS

Project: KDHE NEODESHA
Pace Project No.: 60182085

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/47021

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65653

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65671

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65690

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65698

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47169

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to late motor oil range. Quantitation achieved using diesel fuel as a reference standard.
2e	The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to early motor oil range. Quantitation achieved using diesel fuel as a reference standard.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H2	Extraction or preparation conducted outside EPA method holding time.

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QUALIFIERS

Project: KDHE NEODESHA
Pace Project No.: 60182085

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60182085001	**MW-150 / GW-01**	OA2	OEXT/47021	OA2	GCSV/17927
60182085001	**MW-150 / GW-01**	OA2	OEXT/47169	OA2	GCSV/17990
60182085002	**MW-149 / GW-01**	OA2	OEXT/47021	OA2	GCSV/17927
60182085002	**MW-149 / GW-01**	OA2	OEXT/47169	OA2	GCSV/17990
60182085003	**MW-166 / GW-01**	OA2	OEXT/47021	OA2	GCSV/17927
60182085003	**MW-166 / GW-01**	OA2	OEXT/47169	OA2	GCSV/17990
60182085005	**MW-156 / GW-01**	OA2	OEXT/47021	OA2	GCSV/17927
60182085005	**MW-156 / GW-01**	OA2	OEXT/47169	OA2	GCSV/17990
60182085006	**MW-153 / GW-01**	OA2	OEXT/47021	OA2	GCSV/17927
60182085006	**MW-153 / GW-01**	OA2	OEXT/47169	OA2	GCSV/17990
60182085007	**MW-170 / GW-01**	OA2	OEXT/47021	OA2	GCSV/17927
60182085007	**MW-170 / GW-01**	OA2	OEXT/47169	OA2	GCSV/17990
60182085009	**MW-169 / GW-01**	OA2	OEXT/47021	OA2	GCSV/17927
60182085009	**MW-169 / GW-01**	OA2	OEXT/47169	OA2	GCSV/17990
60182085010	**MW-162 / GW-01**	OA2	OEXT/47021	OA2	GCSV/17927
60182085010	**MW-162 / GW-01**	OA2	OEXT/47169	OA2	GCSV/17990
60182085001	**MW-150 / GW-01**	EPA 3010	MPRP/29740	EPA 6010	ICP/22290
60182085002	**MW-149 / GW-01**	EPA 3010	MPRP/29740	EPA 6010	ICP/22290
60182085003	**MW-166 / GW-01**	EPA 3010	MPRP/29740	EPA 6010	ICP/22290
60182085005	**MW-156 / GW-01**	EPA 3010	MPRP/29740	EPA 6010	ICP/22290
60182085006	**MW-153 / GW-01**	EPA 3010	MPRP/29740	EPA 6010	ICP/22290
60182085007	**MW-170 / GW-01**	EPA 3010	MPRP/29740	EPA 6010	ICP/22290
60182085009	**MW-169 / GW-01**	EPA 3010	MPRP/29740	EPA 6010	ICP/22290
60182085010	**MW-162 / GW-01**	EPA 3010	MPRP/29740	EPA 6010	ICP/22290
60182085001	**MW-150 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182085002	**MW-149 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182085003	**MW-166 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182085005	**MW-156 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182085006	**MW-153 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182085007	**MW-170 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182085009	**MW-169 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182085010	**MW-162 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182085001	**MW-150 / GW-01**	EPA 7470	MERP/9027	EPA 7470	MERC/8981
60182085002	**MW-149 / GW-01**	EPA 7470	MERP/9027	EPA 7470	MERC/8981
60182085003	**MW-166 / GW-01**	EPA 7470	MERP/9027	EPA 7470	MERC/8981
60182085005	**MW-156 / GW-01**	EPA 7470	MERP/9027	EPA 7470	MERC/8981
60182085006	**MW-153 / GW-01**	EPA 7470	MERP/9027	EPA 7470	MERC/8981
60182085007	**MW-170 / GW-01**	EPA 7470	MERP/9027	EPA 7470	MERC/8981
60182085009	**MW-169 / GW-01**	EPA 7470	MERP/9027	EPA 7470	MERC/8981
60182085010	**MW-162 / GW-01**	EPA 7470	MERP/9027	EPA 7470	MERC/8981

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60182085001	**MW-150 / GW-01**	EPA 7470	MERP/9035	EPA 7470	MERC/8990
60182085002	**MW-149 / GW-01**	EPA 7470	MERP/9035	EPA 7470	MERC/8990
60182085003	**MW-166 / GW-01**	EPA 7470	MERP/9035	EPA 7470	MERC/8990
60182085005	**MW-156 / GW-01**	EPA 7470	MERP/9035	EPA 7470	MERC/8990
60182085006	**MW-153 / GW-01**	EPA 7470	MERP/9035	EPA 7470	MERC/8990
60182085007	**MW-170 / GW-01**	EPA 7470	MERP/9035	EPA 7470	MERC/8990
60182085009	**MW-169 / GW-01**	EPA 7470	MERP/9035	EPA 7470	MERC/8990
60182085010	**MW-162 / GW-01**	EPA 7470	MERP/9035	EPA 7470	MERC/8990
60182085001	**MW-150 / GW-01**	EPA 3510	OEXT/47040	EPA 8270	MSSV/15170
60182085002	**MW-149 / GW-01**	EPA 3510	OEXT/47040	EPA 8270	MSSV/15170
60182085003	**MW-166 / GW-01**	EPA 3510	OEXT/47040	EPA 8270	MSSV/15170
60182085005	**MW-156 / GW-01**	EPA 3510	OEXT/47040	EPA 8270	MSSV/15170
60182085006	**MW-153 / GW-01**	EPA 3510	OEXT/47040	EPA 8270	MSSV/15170
60182085007	**MW-170 / GW-01**	EPA 3510	OEXT/47040	EPA 8270	MSSV/15170
60182085009	**MW-169 / GW-01**	EPA 3510	OEXT/47040	EPA 8270	MSSV/15170
60182085010	**MW-162 / GW-01**	EPA 3510	OEXT/47040	EPA 8270	MSSV/15170
60182085001	**MW-150 / GW-01**	EPA 3510C	OEXT/47019	EPA 8270C by SIM	MSSV/15145
60182085002	**MW-149 / GW-01**	EPA 3510C	OEXT/47019	EPA 8270C by SIM	MSSV/15145
60182085003	**MW-166 / GW-01**	EPA 3510C	OEXT/47019	EPA 8270C by SIM	MSSV/15145
60182085005	**MW-156 / GW-01**	EPA 3510C	OEXT/47019	EPA 8270C by SIM	MSSV/15145
60182085006	**MW-153 / GW-01**	EPA 3510C	OEXT/47019	EPA 8270C by SIM	MSSV/15145
60182085007	**MW-170 / GW-01**	EPA 3510C	OEXT/47019	EPA 8270C by SIM	MSSV/15145
60182085009	**MW-169 / GW-01**	EPA 3510C	OEXT/47019	EPA 8270C by SIM	MSSV/15145
60182085010	**MW-162 / GW-01**	EPA 3510C	OEXT/47019	EPA 8270C by SIM	MSSV/15145
60182085001	**MW-150 / GW-01**	EPA 5030B/8260	MSV/65653		
60182085002	**MW-149 / GW-01**	EPA 5030B/8260	MSV/65690		
60182085003	**MW-166 / GW-01**	EPA 5030B/8260	MSV/65690		
60182085004	**TB-04**	EPA 5030B/8260	MSV/65653		
60182085005	**MW-156 / GW-01**	EPA 5030B/8260	MSV/65690		
60182085006	**MW-153 / GW-01**	EPA 5030B/8260	MSV/65653		
60182085007	**MW-170 / GW-01**	EPA 5030B/8260	MSV/65690		
60182085008	**TB-05**	EPA 5030B/8260	MSV/65653		
60182085009	**MW-169 / GW-01**	EPA 5030B/8260	MSV/65653		
60182085010	**MW-162 / GW-01**	EPA 5030B/8260	MSV/65653		
60182085011	**TB-06**	EPA 5030B/8260	MSV/65653		
60182085001	**MW-150 / GW-01**	EPA 8260/OA1	MSV/65671		
60182085002	**MW-149 / GW-01**	EPA 8260/OA1	MSV/65698		
60182085003	**MW-166 / GW-01**	EPA 8260/OA1	MSV/65698		
60182085004	**TB-04**	EPA 8260/OA1	MSV/65671		
60182085005	**MW-156 / GW-01**	EPA 8260/OA1	MSV/65698		
60182085006	**MW-153 / GW-01**	EPA 8260/OA1	MSV/65671		

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60182085

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60182085007	**MW-170 / GW-01**	EPA 8260/OA1	MSV/65698		
60182085008	**TB-05**	EPA 8260/OA1	MSV/65671		
60182085009	**MW-169 / GW-01**	EPA 8260/OA1	MSV/65671		
60182085010	**MW-162 / GW-01**	EPA 8260/OA1	MSV/65671		
60182085011	**TB-06**	EPA 8260/OA1	MSV/65671		
60182085001	**MW-150 / GW-01**	SM 4500-H+B	WET/51430		
60182085002	**MW-149 / GW-01**	SM 4500-H+B	WET/51430		
60182085003	**MW-166 / GW-01**	SM 4500-H+B	WET/51430		
60182085005	**MW-156 / GW-01**	SM 4500-H+B	WET/51430		
60182085006	**MW-153 / GW-01**	SM 4500-H+B	WET/51430		
60182085007	**MW-170 / GW-01**	SM 4500-H+B	WET/51430		
60182085009	**MW-169 / GW-01**	SM 4500-H+B	WET/51430		
60182085010	**MW-162 / GW-01**	SM 4500-H+B	WET/51430		

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Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60182085

60182085

Client Name: Burns + McDonnell

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8992 5890 7063 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JD 11/6

Chain of Custody present:	☒Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☒Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☒Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☒Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time requested:	☐Yes	☒No	☐N/A	7.
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	
Pace containers used:	☒Yes	☐No	☐N/A	9.
Containers intact:	☒Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☒N/A	12.
Sample labels match COC:	☒Yes	☐No	☐N/A	
Includes date/time/ID/analyses Matrix: WT				13.
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	AG4U MW-150 initial pH 6.0 added 1mL Final pH 2.0 AG4U MW-149 initial pH 6.0 added 1mL Final pH 2.0 AG4U MW-166 initial pH 6.0 added 1mL Final pH 2.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes	☐No	☐N/A	14.
Exceptions: VOA coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes	☐No	☐N/A	
Pace Trip Blank lot # (if purchased): Covered				15.
Headspace in VOA vials (>6mm):	☐Yes	☒No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒N/A	17. List State: KS

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: TREVOR Date/Time: 11/6

Comments/ Resolution: pH + TOTAL CRCRA'S ADDED PER TREVOR

Project Manager Review: Date: 11/6

Burns & McDonnell SINCE 1898

021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LOIRET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No:
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KOHE NEODESHA

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Sample Type: Matrix: Liquid	Matrix: Solid	Matrix: Gas	Number of Containers	Analysis: VOC 8260 / GRO CAL	Analysis: SVOC 8270	Analysis: RCRA 8 - FILTERED	Analysis: PAH 8270 SIM	Analysis: DA2	Analysis: pH, TOTAL POLYS	Remarks
MW-150	GW-01	(2) AG1U (4) AG4U	BP3F	(3) DG4H			11/4/14	1654	X				X	X	X	X	X	✓	FIELD FILTERED 001
MW-149	GW-01	↓	↓	↓			11/4/14	1754	X				X	X	X	X	X	✓	FIELD FILTERED 002
MW-166	GW-01	↓	↓	↓			11/4/14	1917	X				X	X	X	X	X	✓	FIELD FILTERED 003
TB-04		(2) DG4H					11/4/14	—	X				X						004

60182085

Sampler (signature):

Relinquished By (signature): 1. — Date/Time 11/5/14 1500

Relinquished By (signature): 2. — Date/Time

Sampler (signature):

Received By (signature): Pace — Date/Time 11/6 0850

Received By (signature) — Date/Time

Special Instructions:

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 3.6°C

Laboratory Comments:

Burns & McDonnell
SINCE 1898
021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LOIRET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No:
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KOHE NEODESHA

Group or SWMU Name	Sample Point	Sample Designator	Sample Event Round	Sample Event Year	Sample Depth (in feet) From	Sample Depth (in feet) To	Sample Collected Date	Sample Collected Time	Matrix Liquid	Matrix Solid	Matrix Gas	Number of Containers	VOC 8260 / GRO - DAL	SVOC 8270	RCRA 8 - FILTERED	PAH 8270 SIM	OA2	Remarks
MW-156	/GW-01	(2)AG1U (3)AG4U	8F3F 2.0	(3)DG4H DTB12			11/5/14	0736	X			10	X	X	X	X	X	FIELD FILTERED 005
MW-153	/GW-01	↓	↓	↓			11/5/14	0927	X			10	X	X	X	X	X	FIELD FILTERED 006
MW-170	/GW-01	↓	↓	↓			11/5/14	1141	X			10	X	X	X	X	X	FIELD FILTERED 007
TB-05		(2)DG4H					11/5/14	—	X			2	X					008

60182085

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. — Date/Time 11/5/14 1600

Received By (signature): — Date/Time 11/6 0870

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 4.9 °C

Relinquished By (signature): 2. — Date/Time

Received By (signature): — Date/Time

Laboratory Comments:

Pace Analytical®
www.pacelabs.com

Sample Condition Upon Receipt

60182085

Optional
Proj Due Date:
Proj Name:

Client Name: Burns + McDonnell

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8766 5760 2332 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 4.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JD 11/6

Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	Added Ind HNO3 to MW-156 A6444 Initial pH 6.0 Final pH 2.0 Added Ind HNO3 to MW-173 A6444 initial pH 6.0 Final pH 2.0 Added Ind HNO3 to MW-170 A6444 initial pH 6.0 final pH 2.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	14.
Exceptions: VOA coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed JD / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): 10/17/14	☒Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Burns & McDonnell SINCE 1898

021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LORET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No:
Lab. Reference No. or Episode No.:

Project Number: 80435
Client Name: KDHE NEODESHA

Group or SWMU Name	Sample Point	Sample Designator	Sample Event Round	Sample Event Year	Sample Depth (in feet) From	Sample Depth (in feet) To	Sample Collected Date	Sample Collected Time	Matrix Liquid	Matrix Solid	Matrix Gas	Number of Containers	VOC 8260 /GRO DAI	SVOC 8270	RCRA-8 - FILTERED	PAH 8270 SIM	OAZ		Remarks
MW-164	/GW-01	(2)AG1U (3)AG4U BP3F (3)DG4U OTHER					11/5/14	1258	X			10	X	X	X	X	X		FIELD FILTERED 009
MW-162	/GW-01	↓ ↓ ↓ ↓ ↓					11/5/14	1357	X			10	X	X	X	X	X		FIELD FILTERED 010
TB-016		(2)DG4U					11/5/14	—	X			2	X						011

6018285

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. — Date/Time 11/5/14 1540

Received By (signature): — Date/Time 11/6 0850

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 3.8 °C

Relinquished By (signature): 2. — Date/Time

Received By (signature): — Date/Time

Laboratory Comments:

Pace Analytical®
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Sample Condition Upon Receipt

60182086

Client Name: Burns + McDonnell

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8992 5840 7074 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☒ ziplock

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 3.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JB 11/6

Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	Added 1 ml HNO_3 to MW-162 AG4U initial pH 6.0 Final pH 2.0 Added 1 ml HNO_3 to MW-162 AG4U initial pH 6.0 Final pH 2.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐Yes ☒No	Initial when completed JB Lot # of added preservative 12513-37-10
Trip Blank present:	☐Yes ☐No ☒N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☒N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_06-NOV-2014 08:50 Client SDG: 6018208
Lab Smp Id: 60182085001 Client Smp ID: MW-150 / GW-01
Operator : PRG Sample Date: 04-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:06-NOV-2014 08:50
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 01:58

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 78-78-4	Butane, 2-methyl-	1.239	89	NJ
2. 96-37-7	Cyclopentane, methyl-	2.518	160	NJ
3. 7385-78-6	1-Pentene, 3,4-dimethyl-	3.212	42	NJ
4. 2452-99-5	Cyclopentane, 1,2-dimethyl-	3.248	55	NJ
5. 873-49-4	Benzene, cyclopropyl-	7.110	260	NJ
6. 874-41-9	Benzene, 1-ethyl-2,4-dimeth	7.436	110	NJ
7. 27133-93-3	2,3-Dihydro-1-methylindene	7.511	100	NJ
8. 95-93-2	Benzene, 1,2,4,5-tetramethy	7.708	78	NJ
9. 824-22-6	1H-Indene, 2,3-dihydro-4-me	7.930	36	NJ
10. 2039-89-6	Benzene, 2-ethenyl-1,4-dime	8.036	150	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_06-NOV-2014 08:50 Client SDG: 6018208
Lab Smp Id: 60182085002 Client Smp ID: MW-149 / GW-01
Operator : PRG Sample Date: 04-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:06-NOV-2014 08:50
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 17:51

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 79-29-8	Butane, 2,3-dimethyl-	1.789	35	NJ
2. 108-08-7	Pentane, 2,4-dimethyl-	2.456	24	NJ
3. 540-84-1	Pentane, 2,2,4-trimethyl-	3.191	50	NJ
4. 589-43-5	Hexane, 2,4-dimethyl-	3.724	13	NJ
5. 2815-58-9	Cyclopentane, 1,2,4-trimeth	3.851	18	NJ
6. 589-53-7	Heptane, 4-methyl-	3.956	33	NJ
7. 560-21-4	Pentane, 2,3,3-trimethyl-	4.038	36	NJ
8. 6876-23-9	Cyclohexane, 1,2-dimethyl-,	4.563	15	NJ
9. 95-93-2	Benzene, 1,2,4,5-tetramethy	7.710	29	NJ
10. 54120-62-6	Benzene, ethyl-1,2,4-trimet	8.295	14	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_06-NOV-2014 08:50 Client SDG: 6018208
Lab Smp Id: 60182085003 Client Smp ID: MW-166 / GW-01
Operator : PRG Sample Date: 04-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:06-NOV-2014 08:50
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 18:07

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_06-NOV-2014 08:50 Client SDG: 6018208
Lab Smp Id: 60182085004 Client Smp ID: TB-04
Operator : PRG Sample Date: 04-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:06-NOV-2014 08:50
Analysis Type: VOA Level: LOW
Inj Date: 10-NOV-2014 22:28

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_06-NOV-2014 08:10 Client SDG: 6018208
Lab Smp Id: 60182085005 Client Smp ID: MW-156 / GW-01
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:06-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 18:39

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 109-66-0	Pentane	1.351	71	NJ
2. 96-37-7	Cyclopentane, methyl-	2.517	440	NJ
3. 2453-00-1	Cyclopentane, 1,3-dimethyl-	3.212	130	NJ
4. 2452-99-5	Cyclopentane, 1,2-dimethyl-	3.248	190	NJ
5. 591-47-9	Cyclohexene, 4-methyl-	3.938	68	NJ
6. 1192-37-6	Cyclohexane, methylene-	4.268	64	NJ
7. 496-11-7	Indane	7.110	130	NJ
8. 527-84-4	Benzene, 1-methyl-2-(1-meth	7.434	67	NJ
9. 27133-93-3	2,3-Dihydro-1-methylindene	7.511	120	NJ
10. 767-99-7	Benzene, (1-methyl-1-propen	8.036	240	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_06-NOV-2014 08:10 Client SDG: 6018208
Lab Smp Id: 60182085006 Client Smp ID: MW-153 / GW-01
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:06-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 01:26

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_06-NOV-2014 08:10 Client SDG: 6018208
Lab Smp Id: 60182085007 Client Smp ID: MW-170 / GW-01
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:06-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 18:23

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_06-NOV-2014 08:10 Client SDG: 6018208
Lab Smp Id: 60182085008 Client Smp ID: TB-05
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:06-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 10-NOV-2014 22:44

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_06-NOV-2014 08:10 Client SDG: 6018208
Lab Smp Id: 60182085009 Client Smp ID: MW-169 / GW-01
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:06-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 02:46

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 106-97-8	Butane	1.031	95	NJ
2. 78-78-4	Butane, 2-methyl-	1.239	190	NJ
3. 109-66-0	Pentane	1.350	64	NJ
4. 142-29-0	Cyclopentene	1.785	65	NJ
5. 96-37-7	Cyclopentane, methyl-	2.518	160	NJ
6. 110-83-8	Cyclohexene	3.210	140	NJ
7. 873-49-4	Benzene, cyclopropyl-	7.110	110	NJ
8. 27133-93-3	2,3-Dihydro-1-methylindene	7.511	86	NJ
9. 768-00-3	Benzene, (1-methyl-1-propen	8.036	130	NJ
10. 581-42-0	Naphthalene, 2,6-dimethyl-	9.976	62	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_06-NOV-2014 08:10 Client SDG: 6018208
Lab Smp Id: 60182085010 Client Smp ID: MW-162 / GW-01
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:06-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 01:42

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_06-NOV-2014 08:10 Client SDG: 6018208
Lab Smp Id: 60182085011 Client Smp ID: TB-06
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:06-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 10-NOV-2014 22:12

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1476204
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 10-NOV-2014 21:56

Client SDG: 111014b.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1476758
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 11-NOV-2014 17:03

Client SDG: 60MSV1-111114a
Client Smp ID: MB
Sample Date:
Sample Point:
Date Received:11-NOV-2014 11:48
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.
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November 26, 2014

Trevor Gustafson
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

RE: Project: KDHE NEODESHA
Pace Project No.: 60182189

Dear Trevor Gustafson:
Enclosed are the analytical results for sample(s) received by the laboratory on November 07, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: TREVOR GUSTAFSON, BURNS & MCDONNELL

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CERTIFICATIONS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: KDHE NEODESHA
Pace Project No.: 60182189

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60182189001	**MW-159 / GW-01**	Water	11/05/14 15:56	11/07/14 08:30
60182189002	**MW-158 / GW-01**	Water	11/05/14 17:03	11/07/14 08:30
60182189003	**TB-07**	Water	11/05/14 00:00	11/07/14 08:30
60182189004	**MW-157 / GW-01**	Water	11/05/14 17:54	11/07/14 08:30
60182189005	**MW-168 / GW-01**	Water	11/05/14 19:18	11/07/14 08:30
60182189006	**TB-08**	Water	11/06/14 00:00	11/07/14 08:30
60182189007	**MW-172 / GW-01**	Water	11/06/14 08:30	11/07/14 08:30
60182189008	**FIELD BLANK-03**	Water	11/06/14 08:43	11/07/14 08:30
60182189009	**TB-09**	Water	11/06/14 00:00	11/07/14 08:30
60182189011	**MW-148 / GW-01 MS/MSD**	Water	11/06/14 10:20	11/07/14 08:30
60182189012	**TB-10**	Water	11/06/14 10:20	11/07/14 08:30
60182189013	**MW-145 / GW-01**	Water	11/06/14 12:41	11/07/14 08:30
60182189014	**DUP-02**	Water	11/06/14 00:00	11/07/14 08:30
60182189015	**TB-11**	Water	11/06/14 12:41	11/07/14 08:30
60182189016	**MW-146 / GW-01**	Water	11/06/14 13:57	11/07/14 08:30
60182189017	**MW-147 / GW-02**	Water	11/06/14 15:13	11/07/14 08:30
60182189018	**TB-12**	Water	11/06/14 00:00	11/07/14 08:30

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60182189

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60182189001	**MW-159 / GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182189002	**MW-158 / GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182189003	**TB-07**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
60182189004	**MW-157 / GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182189005	**MW-168 / GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	SMW, TDS	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60182189

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182189006	**TB-08**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
60182189007	**MW-172 / GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182189008	**FIELD BLANK-03**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182189009	**TB-09**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
60182189011	**MW-148 / GW-01 MS/MSD**	OA2	JDE	7
		EPA 6010	TDS	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60182189

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182189012	**TB-10**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
60182189013	**MW-145 / GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182189014	**DUP-02**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182189015	**TB-11**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
60182189016	**MW-146 / GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182189017	**MW-147 / GW-02**	OA2	JDE	9

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60182189

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6010	TDS	7
		EPA 6010	SMW	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182189018	**TB-12**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Date: November 26, 2014

A library scan was performed for the volatiles method EPA 8260 and the Tentatively Identified Compound reports are included per each sample. The compound Isopropanol was not identified in the search.

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: November 26, 2014

General Information:
11 samples were analyzed for OA2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with OA2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/47053

1e: The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to early motor oil range. Quantitation achieved using diesel fuel as a reference standard.

- DUP-02 (Lab ID: 60182189014)
  - TEH as Diesel No.2
- MW-146 / GW-01 (Lab ID: 60182189016)
  - TEH as Diesel No.2
- MW-147 / GW-02 (Lab ID: 60182189017)
  - TEH as Diesel No.2
- MW-157 / GW-01 (Lab ID: 60182189004)
  - TEH as Diesel No.2
- MW-159 / GW-01 (Lab ID: 60182189001)
  - TEH as Diesel No.2

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: November 26, 2014

Analyte Comments:

QC Batch: OEXT/47053

1e: The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to early motor oil range. Quantitation achieved using diesel fuel as a reference standard.

- MW-168 / GW-01 (Lab ID: 60182189005)
  - TEH as Diesel No.2
- MW-172 / GW-01 (Lab ID: 60182189007)
  - TEH as Diesel No.2

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Burns and McDonnell_BP
Date: November 26, 2014

General Information:
11 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: Burns and McDonnell_BP
Date: November 26, 2014

General Information:
11 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Method: **EPA 7470**
Description: 7470 Mercury
Client: Burns and McDonnell_BP
Date: November 26, 2014

General Information:
11 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/9040

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60182189011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1477346)
  - Mercury
- MSD (Lab ID: 1477347)
  - Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: Burns and McDonnell_BP
Date: November 26, 2014

General Information:
11 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/9045

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60182189011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1477660)
  - Mercury, Dissolved
- MSD (Lab ID: 1477661)
  - Mercury, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Burns and McDonnell_BP
Date: November 26, 2014

General Information:
11 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: Burns and McDonnell_BP
Date: November 26, 2014

General Information:
11 samples were analyzed for EPA 8270C by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Burns and McDonnell_BP
Date: November 26, 2014

General Information:
17 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65679

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Method: **EPA 8260/OA1**
Description: 8260/OA1 UST, Water
Client: Burns and McDonnell_BP
Date: November 26, 2014

General Information:
17 samples were analyzed for EPA 8260/OA1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65672

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/65797

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Burns and McDonnell_BP
Date: November 26, 2014

General Information:
11 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- DUP-02 (Lab ID: 60182189014)
- FIELD BLANK-03 (Lab ID: 60182189008)
- MW-145 / GW-01 (Lab ID: 60182189013)
- MW-146 / GW-01 (Lab ID: 60182189016)
- MW-147 / GW-02 (Lab ID: 60182189017)
- MW-148 / GW-01 MS/MSD (Lab ID: 60182189011)
- MW-157 / GW-01 (Lab ID: 60182189004)
- MW-158 / GW-01 (Lab ID: 60182189002)
- MW-159 / GW-01 (Lab ID: 60182189001)
- MW-168 / GW-01 (Lab ID: 60182189005)
- MW-172 / GW-01 (Lab ID: 60182189007)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-159 / GW-01 **Lab ID: 60182189001** Collected: 11/05/14 15:56 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:21	68334-30-5	
Fuel Oil	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:21	68553-00-4	
Jet Fuel	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:21	94114-58-6	
Kerosene	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:21	8008-20-6	
Mineral Spirits	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:21	8030-30-6	
Motor Oil	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:21	64742-65-0	
TEH as Diesel No.2	**3.0**	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:21		1e
Surrogates								
p-Terphenyl (S)	82	%	29-122	1	11/10/14 00:00	11/13/14 19:21	92-94-4	
n-Tetracosane (S)	66	%	20-120	1	11/10/14 00:00	11/13/14 19:21	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**34.3**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:01	7440-38-2	
Barium	**1500**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:01	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:01	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:01	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:01	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:01	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:01	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**33.9**	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:51	7440-38-2	
Barium, Dissolved	**1420**	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:51	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 14:51	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:51	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:51	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 14:51	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 14:51	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/12/14 11:00	11/12/14 15:47	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/14 17:05	11/13/14 12:27	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	106-46-7	
Diethylphthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	105-67-9	
Dimethylphthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	84-74-2	
2,4-Dinitrophenol	ND	ug/L	57.5	1	11/11/14 00:00	11/14/14 12:14	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-159 / GW-01 **Lab ID: 60182189001** Collected: 11/05/14 15:56 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14		
4-Nitrophenol	ND	ug/L	57.5	1	11/11/14 00:00	11/14/14 12:14	100-02-7	
Phenol	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	108-95-2	
Pyridine	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	110-86-1	
Quinoline	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 12:14	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	76	%	10-135	1	11/11/14 00:00	11/14/14 12:14	4165-60-0	
2-Fluorobiphenyl (S)	82	%	19-124	1	11/11/14 00:00	11/14/14 12:14	321-60-8	
Terphenyl-d14 (S)	99	%	24-131	1	11/11/14 00:00	11/14/14 12:14	1718-51-0	
Phenol-d6 (S)	30	%	10-120	1	11/11/14 00:00	11/14/14 12:14	13127-88-3	
2-Fluorophenol (S)	43	%	13-120	1	11/11/14 00:00	11/14/14 12:14	367-12-4	
2,4,6-Tribromophenol (S)	100	%	29-121	1	11/11/14 00:00	11/14/14 12:14	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**1.9**	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	83-32-9	
Acenaphthylene	**0.32**	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	208-96-8	
Anthracene	**0.30**	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	207-08-9	
Chrysene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	53-70-3	
Fluoranthene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	206-44-0	
Fluorene	**2.0**	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	193-39-5	
1-Methylnaphthalene	**106**	ug/L	9.1	20	11/11/14 00:00	11/13/14 14:08	90-12-0	
2-Methylnaphthalene	**191**	ug/L	9.1	20	11/11/14 00:00	11/13/14 14:08	91-57-6	
Naphthalene	**217**	ug/L	9.1	20	11/11/14 00:00	11/13/14 14:08	91-20-3	
Phenanthrene	**1.9**	ug/L	0.45	1	11/11/14 00:00	11/12/14 16:23	85-01-8	
Pyrene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:23	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	72	%	36-120	1	11/11/14 00:00	11/12/14 16:23	321-60-8	
Terphenyl-d14 (S)	73	%	29-134	1	11/11/14 00:00	11/12/14 16:23	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	50.0	5		11/11/14 15:59	67-64-1	
Acrylonitrile	ND	ug/L	100	5		11/11/14 15:59	107-13-1	
tert-Amylmethyl ether	ND	ug/L	5.0	5		11/11/14 15:59	994-05-8	
Benzene	**103**	ug/L	5.0	5		11/11/14 15:59	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	5		11/11/14 15:59	75-27-4	
2-Butanone (MEK)	ND	ug/L	50.0	5		11/11/14 15:59	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	5		11/11/14 15:59	75-65-0	
n-Butylbenzene	**20.9**	ug/L	5.0	5		11/11/14 15:59	104-51-8	
sec-Butylbenzene	**14.5**	ug/L	5.0	5		11/11/14 15:59	135-98-8	
Carbon disulfide	ND	ug/L	25.0	5		11/11/14 15:59	75-15-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-159 / GW-01 **Lab ID: 60182189001** Collected: 11/05/14 15:56 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chlorobenzene	ND	ug/L	5.0	5		11/11/14 15:59	108-90-7	
Chloroethane	ND	ug/L	5.0	5		11/11/14 15:59	75-00-3	
Chloroform	ND	ug/L	5.0	5		11/11/14 15:59	67-66-3	
Chloromethane	ND	ug/L	5.0	5		11/11/14 15:59	74-87-3	
4-Chlorotoluene	ND	ug/L	5.0	5		11/11/14 15:59	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	5		11/11/14 15:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		11/11/14 15:59	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		11/11/14 15:59	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	25.0	5		11/11/14 15:59	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	5		11/11/14 15:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		11/11/14 15:59	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	5		11/11/14 15:59	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	5		11/11/14 15:59	75-35-4	
1,2-Dichloropropane	ND	ug/L	5.0	5		11/11/14 15:59	78-87-5	
Diisopropyl ether	ND	ug/L	5.0	5		11/11/14 15:59	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	500	5		11/11/14 15:59	123-91-1	
Ethylbenzene	**10.4**	ug/L	5.0	5		11/11/14 15:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	5.0	5		11/11/14 15:59	637-92-3	
2-Hexanone	ND	ug/L	50.0	5		11/11/14 15:59	591-78-6	
Isopropylbenzene (Cumene)	**71.3**	ug/L	5.0	5		11/11/14 15:59	98-82-8	
p-Isopropyltoluene	**7.7**	ug/L	5.0	5		11/11/14 15:59	99-87-6	
Methylene chloride	**6.4**	ug/L	5.0	5		11/11/14 15:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		11/11/14 15:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		11/11/14 15:59	1634-04-4	
n-Propylbenzene	**76.8**	ug/L	5.0	5		11/11/14 15:59	103-65-1	
Styrene	ND	ug/L	5.0	5		11/11/14 15:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		11/11/14 15:59	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		11/11/14 15:59	127-18-4	
Toluene	**10.3**	ug/L	5.0	5		11/11/14 15:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		11/11/14 15:59	71-55-6	
Trichloroethene	ND	ug/L	5.0	5		11/11/14 15:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		11/11/14 15:59	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		11/11/14 15:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		11/11/14 15:59	108-67-8	
Vinyl acetate	ND	ug/L	50.0	5		11/11/14 15:59	108-05-4	
Vinyl chloride	ND	ug/L	5.0	5		11/11/14 15:59	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		11/11/14 15:59	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	5		11/11/14 15:59	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	5		11/11/14 15:59	17060-07-0	
Toluene-d8 (S)	99	%	80-120	5		11/11/14 15:59	2037-26-5	
Preservation pH	**1.0**		0.10	5		11/11/14 15:59		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**6.5**	mg/L	2.5	5		11/17/14 20:45		
Preservation pH	**1.0**		0.10	5		11/17/14 20:45		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-159 / GW-01 **Lab ID: 60182189001** Collected: 11/05/14 15:56 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		11/11/14 10:00		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-158 / GW-01 **Lab ID: 60182189002** Collected: 11/05/14 17:03 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:29	68334-30-5	
Fuel Oil	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:29	68553-00-4	
Jet Fuel	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:29	94114-58-6	
Kerosene	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:29	8008-20-6	
Mineral Spirits	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:29	8030-30-6	
Motor Oil	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:29	64742-65-0	
TEH as Diesel No.2	ND	mg/L	0.36	1	11/10/14 00:00	11/13/14 19:29		
Surrogates								
p-Terphenyl (S)	84	%	29-122	1	11/10/14 00:00	11/13/14 19:29	92-94-4	
n-Tetracosane (S)	68	%	20-120	1	11/10/14 00:00	11/13/14 19:29	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**24.2**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:03	7440-38-2	
Barium	**123**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:03	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:03	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:03	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:03	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:03	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:03	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**27.0**	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:55	7440-38-2	D9
Barium, Dissolved	**116**	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:55	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 14:55	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:55	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:55	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 14:55	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 14:55	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/12/14 11:00	11/12/14 15:49	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/14 17:05	11/13/14 12:29	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	106-46-7	
Diethylphthalate	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	105-67-9	
Dimethylphthalate	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	84-74-2	
2,4-Dinitrophenol	ND	ug/L	56.8	1	11/11/14 00:00	11/14/14 13:36	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-158 / GW-01 **Lab ID: 60182189002** Collected: 11/05/14 17:03 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36		
4-Nitrophenol	ND	ug/L	56.8	1	11/11/14 00:00	11/14/14 13:36	100-02-7	
Phenol	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	108-95-2	
Pyridine	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	110-86-1	
Quinoline	ND	ug/L	11.4	1	11/11/14 00:00	11/14/14 13:36	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	61	%	10-135	1	11/11/14 00:00	11/14/14 13:36	4165-60-0	
2-Fluorobiphenyl (S)	68	%	19-124	1	11/11/14 00:00	11/14/14 13:36	321-60-8	
Terphenyl-d14 (S)	90	%	24-131	1	11/11/14 00:00	11/14/14 13:36	1718-51-0	
Phenol-d6 (S)	22	%	10-120	1	11/11/14 00:00	11/14/14 13:36	13127-88-3	
2-Fluorophenol (S)	34	%	13-120	1	11/11/14 00:00	11/14/14 13:36	367-12-4	
2,4,6-Tribromophenol (S)	87	%	29-121	1	11/11/14 00:00	11/14/14 13:36	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.35**	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	83-32-9	
Acenaphthylene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	208-96-8	
Anthracene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	207-08-9	
Chrysene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	53-70-3	
Fluoranthene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	206-44-0	
Fluorene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.45	1	11/11/14 00:00	11/12/14 16:43	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.45	1	11/11/14 00:00	11/12/14 16:43	91-57-6	
Naphthalene	ND	ug/L	0.45	1	11/11/14 00:00	11/12/14 16:43	91-20-3	
Phenanthrene	ND	ug/L	0.45	1	11/11/14 00:00	11/12/14 16:43	85-01-8	
Pyrene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 16:43	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	87	%	36-120	1	11/11/14 00:00	11/12/14 16:43	321-60-8	
Terphenyl-d14 (S)	89	%	29-134	1	11/11/14 00:00	11/12/14 16:43	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 05:29	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 05:29	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 05:29	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 05:29	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 05:29	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 05:29	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 05:29	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 05:29	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 05:29	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 05:29	75-15-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-158 / GW-01 **Lab ID: 60182189002** Collected: 11/05/14 17:03 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 05:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 05:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 05:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 05:29	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 05:29	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 05:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 05:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 05:29	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 05:29	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 05:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 05:29	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 05:29	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 05:29	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 05:29	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 05:29	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 05:29	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 05:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 05:29	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 05:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 05:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 05:29	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 05:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 05:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 05:29	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 05:29	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 05:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 05:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 05:29	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 05:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 05:29	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 05:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 05:29	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 05:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 05:29	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 05:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 05:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 05:29	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		11/11/14 05:29	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		11/11/14 05:29	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/11/14 05:29	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 05:29		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 05:29		
Preservation pH	**1.0**		0.10	1		11/11/14 05:29		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-158 / GW-01 **Lab ID: 60182189002** Collected: 11/05/14 17:03 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		11/11/14 10:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-07 **Lab ID: 60182189003** Collected: 11/05/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 04:40	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 04:40	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 04:40	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 04:40	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 04:40	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 04:40	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 04:40	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 04:40	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 04:40	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 04:40	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 04:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 04:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 04:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 04:40	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 04:40	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 04:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 04:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 04:40	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 04:40	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 04:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 04:40	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 04:40	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 04:40	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 04:40	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 04:40	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 04:40	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 04:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 04:40	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 04:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 04:40	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 04:40	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 04:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 04:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 04:40	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 04:40	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 04:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 04:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 04:40	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 04:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 04:40	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 04:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 04:40	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 04:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 04:40	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 04:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 04:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 04:40	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-07 **Lab ID: 60182189003** Collected: 11/05/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		11/11/14 04:40	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		11/11/14 04:40	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/11/14 04:40	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 04:40		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 04:40		
Preservation pH	**1.0**		0.10	1		11/11/14 04:40		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-157 / GW-01 **Lab ID: 60182189004** Collected: 11/05/14 17:54 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:37	68334-30-5	
Fuel Oil	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:37	68553-00-4	
Jet Fuel	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:37	94114-58-6	
Kerosene	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:37	8008-20-6	
Mineral Spirits	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:37	8030-30-6	
Motor Oil	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:37	64742-65-0	
TEH as Diesel No.2	**0.69**	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:37		1e
Surrogates								
p-Terphenyl (S)	86	%	29-122	1	11/10/14 00:00	11/13/14 19:37	92-94-4	
n-Tetracosane (S)	76	%	20-120	1	11/10/14 00:00	11/13/14 19:37	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:09	7440-38-2	
Barium	**194**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:09	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:09	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:09	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:09	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:09	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:09	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:58	7440-38-2	
Barium, Dissolved	**195**	ug/L	10.0	1	11/13/14 14:45	11/14/14 14:58	7440-39-3	D9
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 14:58	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:58	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 14:58	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 14:58	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 14:58	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/12/14 11:00	11/12/14 15:52	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/14 17:05	11/13/14 12:32	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	106-46-7	
Diethylphthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	105-67-9	
Dimethylphthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	84-74-2	
2,4-Dinitrophenol	ND	ug/L	57.5	1	11/11/14 00:00	11/14/14 13:57	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-157 / GW-01 **Lab ID: 60182189004** Collected: 11/05/14 17:54 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57		
4-Nitrophenol	ND	ug/L	57.5	1	11/11/14 00:00	11/14/14 13:57	100-02-7	
Phenol	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	108-95-2	
Pyridine	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	110-86-1	
Quinoline	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 13:57	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	68	%	10-135	1	11/11/14 00:00	11/14/14 13:57	4165-60-0	
2-Fluorobiphenyl (S)	75	%	19-124	1	11/11/14 00:00	11/14/14 13:57	321-60-8	
Terphenyl-d14 (S)	97	%	24-131	1	11/11/14 00:00	11/14/14 13:57	1718-51-0	
Phenol-d6 (S)	23	%	10-120	1	11/11/14 00:00	11/14/14 13:57	13127-88-3	
2-Fluorophenol (S)	34	%	13-120	1	11/11/14 00:00	11/14/14 13:57	367-12-4	
2,4,6-Tribromophenol (S)	94	%	29-121	1	11/11/14 00:00	11/14/14 13:57	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.70**	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	83-32-9	
Acenaphthylene	**0.13**	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	208-96-8	
Anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	207-08-9	
Chrysene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	53-70-3	
Fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	206-44-0	
Fluorene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 17:04	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 17:04	91-57-6	
Naphthalene	**0.58**	ug/L	0.53	1	11/11/14 00:00	11/12/14 17:04	91-20-3	
Phenanthrene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 17:04	85-01-8	
Pyrene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:04	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	79	%	36-120	1	11/11/14 00:00	11/12/14 17:04	321-60-8	
Terphenyl-d14 (S)	80	%	29-134	1	11/11/14 00:00	11/12/14 17:04	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 06:01	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 06:01	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 06:01	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 06:01	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 06:01	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 06:01	78-93-3	
tert-Butyl Alcohol	**41.6**	ug/L	10.0	1		11/11/14 06:01	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 06:01	104-51-8	
sec-Butylbenzene	**1.1**	ug/L	1.0	1		11/11/14 06:01	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 06:01	75-15-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-157 / GW-01 **Lab ID: 60182189004** Collected: 11/05/14 17:54 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 06:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 06:01	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 06:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 06:01	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 06:01	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 06:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 06:01	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 06:01	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 06:01	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 06:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 06:01	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 06:01	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 06:01	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 06:01	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 06:01	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 06:01	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 06:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 06:01	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 06:01	591-78-6	
Isopropylbenzene (Cumene)	**1.5**	ug/L	1.0	1		11/11/14 06:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 06:01	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 06:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 06:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 06:01	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 06:01	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 06:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 06:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 06:01	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 06:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 06:01	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 06:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 06:01	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 06:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 06:01	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 06:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 06:01	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 06:01	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		11/11/14 06:01	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		11/11/14 06:01	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/11/14 06:01	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 06:01		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 06:01		
Preservation pH	**1.0**		0.10	1		11/11/14 06:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-157 / GW-01 **Lab ID: 60182189004** Collected: 11/05/14 17:54 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.5**	Std. Units	0.10	1		11/11/14 10:00		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-168 / GW-01 **Lab ID: 60182189005** Collected: 11/05/14 19:18 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:44	68334-30-5	
Fuel Oil	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:44	68553-00-4	
Jet Fuel	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:44	94114-58-6	
Kerosene	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:44	8008-20-6	
Mineral Spirits	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:44	8030-30-6	
Motor Oil	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:44	64742-65-0	
TEH as Diesel No.2	**1.5**	mg/L	0.42	1	11/10/14 00:00	11/13/14 19:44		1e
Surrogates								
p-Terphenyl (S)	88	%	29-122	1	11/10/14 00:00	11/13/14 19:44	92-94-4	
n-Tetracosane (S)	70	%	20-120	1	11/10/14 00:00	11/13/14 19:44	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**22.5**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:11	7440-38-2	
Barium	**1070**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:11	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:11	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:11	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:11	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:11	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:11	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**26.4**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:02	7440-38-2	D9
Barium, Dissolved	**1040**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:02	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:02	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:02	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/15/14 12:01	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:02	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:02	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/12/14 11:00	11/12/14 15:54	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/14 17:05	11/13/14 12:34	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	106-46-7	
Diethylphthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	105-67-9	
Dimethylphthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	84-74-2	
2,4-Dinitrophenol	ND	ug/L	57.5	1	11/11/14 00:00	11/14/14 14:18	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-168 / GW-01 **Lab ID: 60182189005** Collected: 11/05/14 19:18 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18		
4-Nitrophenol	ND	ug/L	57.5	1	11/11/14 00:00	11/14/14 14:18	100-02-7	
Phenol	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	108-95-2	
Pyridine	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	110-86-1	
Quinoline	ND	ug/L	11.5	1	11/11/14 00:00	11/14/14 14:18	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	70	%	10-135	1	11/11/14 00:00	11/14/14 14:18	4165-60-0	
2-Fluorobiphenyl (S)	77	%	19-124	1	11/11/14 00:00	11/14/14 14:18	321-60-8	
Terphenyl-d14 (S)	93	%	24-131	1	11/11/14 00:00	11/14/14 14:18	1718-51-0	
Phenol-d6 (S)	22	%	10-120	1	11/11/14 00:00	11/14/14 14:18	13127-88-3	
2-Fluorophenol (S)	33	%	13-120	1	11/11/14 00:00	11/14/14 14:18	367-12-4	
2,4,6-Tribromophenol (S)	93	%	29-121	1	11/11/14 00:00	11/14/14 14:18	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**1.0**	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	83-32-9	
Acenaphthylene	**0.21**	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	208-96-8	
Anthracene	**0.48**	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	207-08-9	
Chrysene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	53-70-3	
Fluoranthene	**0.095**	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	206-44-0	
Fluorene	**1.2**	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	193-39-5	
1-Methylnaphthalene	**25.9**	ug/L	4.5	10	11/11/14 00:00	11/13/14 14:28	90-12-0	
2-Methylnaphthalene	**29.8**	ug/L	4.5	10	11/11/14 00:00	11/13/14 14:28	91-57-6	
Naphthalene	**51.2**	ug/L	4.5	10	11/11/14 00:00	11/13/14 14:28	91-20-3	
Phenanthrene	**1.3**	ug/L	0.45	1	11/11/14 00:00	11/12/14 17:24	85-01-8	
Pyrene	**0.30**	ug/L	0.091	1	11/11/14 00:00	11/12/14 17:24	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	85	%	36-120	1	11/11/14 00:00	11/12/14 17:24	321-60-8	
Terphenyl-d14 (S)	87	%	29-134	1	11/11/14 00:00	11/12/14 17:24	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 06:18	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 06:18	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 06:18	994-05-8	
Benzene	**2.9**	ug/L	1.0	1		11/11/14 06:18	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 06:18	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 06:18	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 06:18	75-65-0	
n-Butylbenzene	**37.8**	ug/L	1.0	1		11/11/14 06:18	104-51-8	
sec-Butylbenzene	**26.6**	ug/L	1.0	1		11/11/14 06:18	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 06:18	75-15-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-168 / GW-01 **Lab ID: 60182189005** Collected: 11/05/14 19:18 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 06:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 06:18	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 06:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 06:18	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 06:18	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 06:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 06:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 06:18	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 06:18	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 06:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 06:18	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 06:18	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 06:18	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 06:18	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 06:18	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 06:18	123-91-1	
Ethylbenzene	**3.8**	ug/L	1.0	1		11/11/14 06:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 06:18	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 06:18	591-78-6	
Isopropylbenzene (Cumene)	**85.6**	ug/L	1.0	1		11/11/14 06:18	98-82-8	
p-Isopropyltoluene	**1.1**	ug/L	1.0	1		11/11/14 06:18	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 06:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 06:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 06:18	1634-04-4	
n-Propylbenzene	**195**	ug/L	5.0	5		11/11/14 16:15	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 06:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 06:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 06:18	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 06:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 06:18	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 06:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 06:18	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 06:18	95-63-6	
1,3,5-Trimethylbenzene	**1.7**	ug/L	1.0	1		11/11/14 06:18	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 06:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 06:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 06:18	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		11/11/14 06:18	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/11/14 06:18	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/11/14 06:18	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 06:18		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**4.9**	mg/L	0.50	1		11/11/14 06:18		
Preservation pH	**1.0**		0.10	1		11/11/14 06:18		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-168 / GW-01 **Lab ID: 60182189005** Collected: 11/05/14 19:18 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		11/11/14 10:00		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-08 **Lab ID: 60182189006** Collected: 11/06/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 04:57	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 04:57	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 04:57	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 04:57	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 04:57	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 04:57	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 04:57	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 04:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 04:57	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 04:57	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 04:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 04:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 04:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 04:57	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 04:57	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 04:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 04:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 04:57	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 04:57	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 04:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 04:57	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 04:57	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 04:57	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 04:57	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 04:57	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 04:57	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 04:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 04:57	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 04:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 04:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 04:57	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 04:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 04:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 04:57	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 04:57	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 04:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 04:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 04:57	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 04:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 04:57	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 04:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 04:57	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 04:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 04:57	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 04:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 04:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 04:57	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-08 **Lab ID: 60182189006** Collected: 11/06/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		11/11/14 04:57	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/11/14 04:57	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/11/14 04:57	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 04:57		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 04:57		
Preservation pH	**1.0**		0.10	1		11/11/14 04:57		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-172 / GW-01 **Lab ID: 60182189007** Collected: 11/06/14 08:30 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:08	68334-30-5	
Fuel Oil	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:08	68553-00-4	
Jet Fuel	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:08	94114-58-6	
Kerosene	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:08	8008-20-6	
Mineral Spirits	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:08	8030-30-6	
Motor Oil	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:08	64742-65-0	
TEH as Diesel No.2	**2.2**	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:08		1e
Surrogates								
p-Terphenyl (S)	103	%	29-122	1	11/10/14 00:00	11/13/14 20:08	92-94-4	
n-Tetracosane (S)	95	%	20-120	1	11/10/14 00:00	11/13/14 20:08	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:13	7440-38-2	
Barium	**72.2**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:13	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:13	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:13	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:13	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:13	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:13	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:05	7440-38-2	
Barium, Dissolved	**71.2**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:05	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:05	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:05	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:05	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:05	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:05	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/12/14 11:00	11/12/14 16:00	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/14 17:05	11/13/14 12:36	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	106-46-7	
Diethylphthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	105-67-9	
Dimethylphthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.2	1	11/11/14 00:00	11/14/14 14:38	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-172 / GW-01 **Lab ID: 60182189007** Collected: 11/06/14 08:30 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38		
4-Nitrophenol	ND	ug/L	53.2	1	11/11/14 00:00	11/14/14 14:38	100-02-7	
Phenol	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	108-95-2	
Pyridine	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	110-86-1	
Quinoline	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 14:38	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	68	%	10-135	1	11/11/14 00:00	11/14/14 14:38	4165-60-0	
2-Fluorobiphenyl (S)	71	%	19-124	1	11/11/14 00:00	11/14/14 14:38	321-60-8	
Terphenyl-d14 (S)	91	%	24-131	1	11/11/14 00:00	11/14/14 14:38	1718-51-0	
Phenol-d6 (S)	35	%	10-120	1	11/11/14 00:00	11/14/14 14:38	13127-88-3	
2-Fluorophenol (S)	47	%	13-120	1	11/11/14 00:00	11/14/14 14:38	367-12-4	
2,4,6-Tribromophenol (S)	89	%	29-121	1	11/11/14 00:00	11/14/14 14:38	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.24**	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	83-32-9	
Acenaphthylene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	208-96-8	
Anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	207-08-9	
Chrysene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	53-70-3	
Fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	206-44-0	
Fluorene	**0.20**	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	193-39-5	
1-Methylnaphthalene	**5.5**	ug/L	0.53	1	11/11/14 00:00	11/12/14 17:44	90-12-0	
2-Methylnaphthalene	**2.6**	ug/L	0.53	1	11/11/14 00:00	11/12/14 17:44	91-57-6	
Naphthalene	**35.6**	ug/L	2.6	5	11/11/14 00:00	11/13/14 14:49	91-20-3	
Phenanthrene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 17:44	85-01-8	
Pyrene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 17:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	93	%	36-120	1	11/11/14 00:00	11/12/14 17:44	321-60-8	
Terphenyl-d14 (S)	99	%	29-134	1	11/11/14 00:00	11/12/14 17:44	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**20.1**	ug/L	10.0	1		11/11/14 06:33	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 06:33	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 06:33	994-05-8	
Benzene	**187**	ug/L	1.0	1		11/11/14 06:33	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 06:33	75-27-4	
2-Butanone (MEK)	**11.9**	ug/L	10.0	1		11/11/14 06:33	78-93-3	
tert-Butyl Alcohol	**132**	ug/L	10.0	1		11/11/14 06:33	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 06:33	104-51-8	
sec-Butylbenzene	**4.4**	ug/L	1.0	1		11/11/14 06:33	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 06:33	75-15-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-172 / GW-01 **Lab ID: 60182189007** Collected: 11/06/14 08:30 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 06:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 06:33	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 06:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 06:33	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 06:33	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 06:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 06:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 06:33	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 06:33	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 06:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 06:33	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 06:33	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 06:33	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 06:33	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 06:33	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 06:33	123-91-1	
Ethylbenzene	**64.2**	ug/L	1.0	1		11/11/14 06:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 06:33	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 06:33	591-78-6	
Isopropylbenzene (Cumene)	**17.6**	ug/L	1.0	1		11/11/14 06:33	98-82-8	
p-Isopropyltoluene	**11.6**	ug/L	1.0	1		11/11/14 06:33	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 06:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 06:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 06:33	1634-04-4	
n-Propylbenzene	**20.0**	ug/L	1.0	1		11/11/14 06:33	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 06:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 06:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 06:33	127-18-4	
Toluene	**112**	ug/L	1.0	1		11/11/14 06:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 06:33	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 06:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 06:33	75-69-4	
1,2,4-Trimethylbenzene	**175**	ug/L	1.0	1		11/11/14 06:33	95-63-6	
1,3,5-Trimethylbenzene	**97.0**	ug/L	1.0	1		11/11/14 06:33	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 06:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 06:33	75-01-4	
Xylene (Total)	**407**	ug/L	3.0	1		11/11/14 06:33	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		11/11/14 06:33	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/11/14 06:33	17060-07-0	
Toluene-d8 (S)	98	%	80-120	1		11/11/14 06:33	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 06:33		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**6.7**	mg/L	0.50	1		11/11/14 06:33		
Preservation pH	**1.0**		0.10	1		11/11/14 06:33		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-172 / GW-01 **Lab ID: 60182189007** Collected: 11/06/14 08:30 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		11/11/14 10:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: FIELD BLANK-03 **Lab ID: 60182189008** Collected: 11/06/14 08:43 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:16	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:16	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:16	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:16	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:16	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:16	64742-65-0	
TEH as Diesel No.2	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:16		
Surrogates								
p-Terphenyl (S)	82	%	29-122	1	11/10/14 00:00	11/13/14 20:16	92-94-4	
n-Tetracosane (S)	89	%	20-120	1	11/10/14 00:00	11/13/14 20:16	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:16	7440-38-2	
Barium	ND	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:16	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:16	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:16	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:16	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:16	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:16	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:09	7440-38-2	
Barium, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:09	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:09	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:09	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:09	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:09	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:09	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/12/14 11:00	11/12/14 16:03	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/14 17:05	11/13/14 12:43	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	106-46-7	
Diethylphthalate	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	105-67-9	
Dimethylphthalate	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	84-74-2	
2,4-Dinitrophenol	ND	ug/L	52.6	1	11/11/14 00:00	11/14/14 14:59	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: FIELD BLANK-03 **Lab ID: 60182189008** Collected: 11/06/14 08:43 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59		
4-Nitrophenol	ND	ug/L	52.6	1	11/11/14 00:00	11/14/14 14:59	100-02-7	
Phenol	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	108-95-2	
Pyridine	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	110-86-1	
Quinoline	ND	ug/L	10.5	1	11/11/14 00:00	11/14/14 14:59	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	78	%	10-135	1	11/11/14 00:00	11/14/14 14:59	4165-60-0	
2-Fluorobiphenyl (S)	84	%	19-124	1	11/11/14 00:00	11/14/14 14:59	321-60-8	
Terphenyl-d14 (S)	100	%	24-131	1	11/11/14 00:00	11/14/14 14:59	1718-51-0	
Phenol-d6 (S)	40	%	10-120	1	11/11/14 00:00	11/14/14 14:59	13127-88-3	
2-Fluorophenol (S)	55	%	13-120	1	11/11/14 00:00	11/14/14 14:59	367-12-4	
2,4,6-Tribromophenol (S)	93	%	29-121	1	11/11/14 00:00	11/14/14 14:59	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.096**	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	83-32-9	
Acenaphthylene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	208-96-8	
Anthracene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	207-08-9	
Chrysene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	53-70-3	
Fluoranthene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	206-44-0	
Fluorene	**0.097**	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.45	1	11/11/14 00:00	11/12/14 18:05	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.45	1	11/11/14 00:00	11/12/14 18:05	91-57-6	
Naphthalene	ND	ug/L	0.45	1	11/11/14 00:00	11/12/14 18:05	91-20-3	
Phenanthrene	ND	ug/L	0.45	1	11/11/14 00:00	11/12/14 18:05	85-01-8	
Pyrene	ND	ug/L	0.091	1	11/11/14 00:00	11/12/14 18:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	86	%	36-120	1	11/11/14 00:00	11/12/14 18:05	321-60-8	
Terphenyl-d14 (S)	83	%	29-134	1	11/11/14 00:00	11/12/14 18:05	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 05:45	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 05:45	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 05:45	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 05:45	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 05:45	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 05:45	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 05:45	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 05:45	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 05:45	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 05:45	75-15-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: FIELD BLANK-03 **Lab ID: 60182189008** Collected: 11/06/14 08:43 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 05:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 05:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 05:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 05:45	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 05:45	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 05:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 05:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 05:45	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 05:45	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 05:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 05:45	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 05:45	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 05:45	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 05:45	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 05:45	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 05:45	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 05:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 05:45	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 05:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 05:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 05:45	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 05:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 05:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 05:45	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 05:45	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 05:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 05:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 05:45	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 05:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 05:45	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 05:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 05:45	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 05:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 05:45	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 05:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 05:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 05:45	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		11/11/14 05:45	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/11/14 05:45	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/11/14 05:45	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 05:45		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 05:45		
Preservation pH	**1.0**		0.10	1		11/11/14 05:45		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: FIELD BLANK-03 **Lab ID: 60182189008** Collected: 11/06/14 08:43 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.4**	Std. Units	0.10	1		11/11/14 10:00		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-09 **Lab ID: 60182189009** Collected: 11/06/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 05:13	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 05:13	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 05:13	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 05:13	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 05:13	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 05:13	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 05:13	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 05:13	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 05:13	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 05:13	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 05:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 05:13	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 05:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 05:13	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 05:13	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 05:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 05:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 05:13	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 05:13	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 05:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 05:13	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 05:13	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 05:13	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 05:13	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 05:13	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 05:13	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 05:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 05:13	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 05:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 05:13	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 05:13	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 05:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 05:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 05:13	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 05:13	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 05:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 05:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 05:13	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 05:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 05:13	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 05:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 05:13	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 05:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 05:13	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 05:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 05:13	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 05:13	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-09 **Lab ID: 60182189009** Collected: 11/06/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		11/11/14 05:13	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/11/14 05:13	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/11/14 05:13	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 05:13		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 05:13		
Preservation pH	**1.0**		0.10	1		11/11/14 05:13		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-148 / GW-01 MS/MSD **Lab ID: 60182189011** Collected: 11/06/14 10:20 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.38	1	11/10/14 00:00	11/13/14 20:24	68334-30-5	
Fuel Oil	ND	mg/L	0.38	1	11/10/14 00:00	11/13/14 20:24	68553-00-4	
Jet Fuel	ND	mg/L	0.38	1	11/10/14 00:00	11/13/14 20:24	94114-58-6	
Kerosene	ND	mg/L	0.38	1	11/10/14 00:00	11/13/14 20:24	8008-20-6	
Mineral Spirits	ND	mg/L	0.38	1	11/10/14 00:00	11/13/14 20:24	8030-30-6	
Motor Oil	ND	mg/L	0.38	1	11/10/14 00:00	11/13/14 20:24	64742-65-0	
TEH as Diesel No.2	ND	mg/L	0.38	1	11/10/14 00:00	11/13/14 20:24		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:18	7440-38-2	
Barium	**32.0**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:18	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:18	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:18	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:18	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:18	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:18	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:12	7440-38-2	
Barium, Dissolved	**29.6**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:12	7440-39-3	
Cadmium, Dissolved	**1.1**	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:12	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:12	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:12	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:12	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:12	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/12/14 11:00	11/12/14 16:05	7439-97-6	M1
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/14 17:05	11/13/14 12:45	7439-97-6	M1
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	106-46-7	
Diethylphthalate	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	105-67-9	
Dimethylphthalate	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	84-74-2	
2,4-Dinitrophenol	ND	ug/L	52.1	1	11/11/14 00:00	11/14/14 15:20	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20		
4-Nitrophenol	ND	ug/L	52.1	1	11/11/14 00:00	11/14/14 15:20	100-02-7	
Phenol	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	108-95-2	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-148 / GW-01 MS/MSD **Lab ID: 60182189011** Collected: 11/06/14 10:20 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Pyridine	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	110-86-1	
Quinoline	ND	ug/L	10.4	1	11/11/14 00:00	11/14/14 15:20	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	71	%	10-135	1	11/11/14 00:00	11/14/14 15:20	4165-60-0	
2-Fluorobiphenyl (S)	77	%	19-124	1	11/11/14 00:00	11/14/14 15:20	321-60-8	
Terphenyl-d14 (S)	93	%	24-131	1	11/11/14 00:00	11/14/14 15:20	1718-51-0	
Phenol-d6 (S)	22	%	10-120	1	11/11/14 00:00	11/14/14 15:20	13127-88-3	
2-Fluorophenol (S)	35	%	13-120	1	11/11/14 00:00	11/14/14 15:20	367-12-4	
2,4,6-Tribromophenol (S)	89	%	29-121	1	11/11/14 00:00	11/14/14 15:20	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	83-32-9	
Acenaphthylene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	208-96-8	
Anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	207-08-9	
Chrysene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	53-70-3	
Fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	206-44-0	
Fluorene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 18:25	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 18:25	91-57-6	
Naphthalene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 18:25	91-20-3	
Phenanthrene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 18:25	85-01-8	
Pyrene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 18:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	82	%	36-120	1	11/11/14 00:00	11/12/14 18:25	321-60-8	
Terphenyl-d14 (S)	78	%	29-134	1	11/11/14 00:00	11/12/14 18:25	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 06:50	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 06:50	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 06:50	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 06:50	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 06:50	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 06:50	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 06:50	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 06:50	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 06:50	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 06:50	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 06:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 06:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 06:50	67-66-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-148 / GW-01 MS/MSD **Lab ID: 60182189011** Collected: 11/06/14 10:20 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		11/11/14 06:50	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 06:50	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 06:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 06:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 06:50	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 06:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 06:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 06:50	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 06:50	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 06:50	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 06:50	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 06:50	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 06:50	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 06:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 06:50	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 06:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 06:50	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 06:50	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 06:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 06:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 06:50	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 06:50	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 06:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 06:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 06:50	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 06:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 06:50	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 06:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 06:50	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 06:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 06:50	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 06:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 06:50	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 06:50	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		11/11/14 06:50	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		11/11/14 06:50	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/11/14 06:50	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 06:50		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 06:50		
Preservation pH	**1.0**		0.10	1		11/11/14 06:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**6.8**	Std. Units	0.10	1		11/11/14 10:00		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-10 **Lab ID: 60182189012** Collected: 11/06/14 10:20 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 07:06	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 07:06	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 07:06	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 07:06	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 07:06	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 07:06	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 07:06	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 07:06	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 07:06	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 07:06	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 07:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 07:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 07:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 07:06	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 07:06	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 07:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 07:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 07:06	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 07:06	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 07:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 07:06	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 07:06	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 07:06	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 07:06	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 07:06	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 07:06	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 07:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 07:06	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 07:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 07:06	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 07:06	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 07:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 07:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 07:06	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 07:06	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 07:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 07:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 07:06	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 07:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 07:06	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 07:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 07:06	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 07:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 07:06	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 07:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 07:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 07:06	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-10 **Lab ID: 60182189012** Collected: 11/06/14 10:20 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		11/11/14 07:06	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		11/11/14 07:06	17060-07-0	
Toluene-d8 (S)	101	%	80-120	1		11/11/14 07:06	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 07:06		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/11/14 07:06		
Preservation pH	**1.0**		0.10	1		11/11/14 07:06		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-145 / GW-01 **Lab ID: 60182189013** Collected: 11/06/14 12:41 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:32	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:32	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:32	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:32	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:32	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:32	64742-65-0	
TEH as Diesel No.2	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:32		
Surrogates								
p-Terphenyl (S)	77	%	29-122	1	11/10/14 00:00	11/13/14 20:32	92-94-4	
n-Tetracosane (S)	65	%	20-120	1	11/10/14 00:00	11/13/14 20:32	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:43	7440-38-2	
Barium	**128**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:43	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:43	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:43	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:43	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:43	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:43	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:33	7440-38-2	
Barium, Dissolved	**115**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:33	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:33	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:33	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:33	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:33	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:33	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/12/14 11:00	11/12/14 16:12	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/14 17:05	11/13/14 12:52	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	106-46-7	
Diethylphthalate	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.8	1	11/11/14 00:00	11/14/14 16:21	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-145 / GW-01 **Lab ID: 60182189013** Collected: 11/06/14 12:41 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21		
4-Nitrophenol	ND	ug/L	53.8	1	11/11/14 00:00	11/14/14 16:21	100-02-7	
Phenol	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	108-95-2	
Pyridine	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	110-86-1	
Quinoline	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 16:21	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	62	%	10-135	1	11/11/14 00:00	11/14/14 16:21	4165-60-0	
2-Fluorobiphenyl (S)	66	%	19-124	1	11/11/14 00:00	11/14/14 16:21	321-60-8	
Terphenyl-d14 (S)	89	%	24-131	1	11/11/14 00:00	11/14/14 16:21	1718-51-0	
Phenol-d6 (S)	21	%	10-120	1	11/11/14 00:00	11/14/14 16:21	13127-88-3	
2-Fluorophenol (S)	31	%	13-120	1	11/11/14 00:00	11/14/14 16:21	367-12-4	
2,4,6-Tribromophenol (S)	84	%	29-121	1	11/11/14 00:00	11/14/14 16:21	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**0.12**	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 19:26	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 19:26	91-57-6	
Naphthalene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 19:26	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 19:26	85-01-8	
Pyrene	**0.27**	ug/L	0.10	1	11/11/14 00:00	11/12/14 19:26	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	88	%	36-120	1	11/11/14 00:00	11/12/14 19:26	321-60-8	
Terphenyl-d14 (S)	89	%	29-134	1	11/11/14 00:00	11/12/14 19:26	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 14:55	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 14:55	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 14:55	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 14:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 14:55	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 14:55	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 14:55	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 14:55	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 14:55	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 14:55	75-15-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-145 / GW-01 **Lab ID: 60182189013** Collected: 11/06/14 12:41 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 14:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 14:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 14:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 14:55	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 14:55	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 14:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 14:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 14:55	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 14:55	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 14:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 14:55	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 14:55	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 14:55	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 14:55	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 14:55	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 14:55	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 14:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 14:55	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 14:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 14:55	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 14:55	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 14:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 14:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 14:55	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 14:55	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 14:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 14:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 14:55	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 14:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 14:55	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 14:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 14:55	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 14:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 14:55	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 14:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 14:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 14:55	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	1		11/11/14 14:55	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/11/14 14:55	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/11/14 14:55	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 14:55		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/17/14 19:41		
Preservation pH	**1.0**		0.10	1		11/17/14 19:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-145 / GW-01 **Lab ID: 60182189013** Collected: 11/06/14 12:41 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		11/11/14 10:00		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: DUP-02 **Lab ID: 60182189014** Collected: 11/06/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:39	68334-30-5	
Fuel Oil	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:39	68553-00-4	
Jet Fuel	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:39	94114-58-6	
Kerosene	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:39	8008-20-6	
Mineral Spirits	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:39	8030-30-6	
Motor Oil	ND	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:39	64742-65-0	
TEH as Diesel No.2	**0.47**	mg/L	0.42	1	11/10/14 00:00	11/13/14 20:39		1e
Surrogates								
p-Terphenyl (S)	91	%	29-122	1	11/10/14 00:00	11/13/14 20:39	92-94-4	
n-Tetracosane (S)	75	%	20-120	1	11/10/14 00:00	11/13/14 20:39	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:45	7440-38-2	
Barium	**124**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:45	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:45	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:45	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:45	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:45	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:45	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:37	7440-38-2	
Barium, Dissolved	**115**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:37	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:37	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:37	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:37	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:37	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:37	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/12/14 11:00	11/12/14 16:14	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/14 17:05	11/13/14 12:54	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	106-46-7	
Diethylphthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	105-67-9	
Dimethylphthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.2	1	11/11/14 00:00	11/14/14 16:42	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: DUP-02 **Lab ID: 60182189014** Collected: 11/06/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42		
4-Nitrophenol	ND	ug/L	53.2	1	11/11/14 00:00	11/14/14 16:42	100-02-7	
Phenol	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	108-95-2	
Pyridine	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	110-86-1	
Quinoline	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 16:42	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	58	%	10-135	1	11/11/14 00:00	11/14/14 16:42	4165-60-0	
2-Fluorobiphenyl (S)	70	%	19-124	1	11/11/14 00:00	11/14/14 16:42	321-60-8	
Terphenyl-d14 (S)	90	%	24-131	1	11/11/14 00:00	11/14/14 16:42	1718-51-0	
Phenol-d6 (S)	19	%	10-120	1	11/11/14 00:00	11/14/14 16:42	13127-88-3	
2-Fluorophenol (S)	28	%	13-120	1	11/11/14 00:00	11/14/14 16:42	367-12-4	
2,4,6-Tribromophenol (S)	89	%	29-121	1	11/11/14 00:00	11/14/14 16:42	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	83-32-9	
Acenaphthylene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	208-96-8	
Anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	207-08-9	
Chrysene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	53-70-3	
Fluoranthene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	206-44-0	
Fluorene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 19:46	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 19:46	91-57-6	
Naphthalene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 19:46	91-20-3	
Phenanthrene	ND	ug/L	0.53	1	11/11/14 00:00	11/12/14 19:46	85-01-8	
Pyrene	**0.26**	ug/L	0.11	1	11/11/14 00:00	11/12/14 19:46	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	88	%	36-120	1	11/11/14 00:00	11/12/14 19:46	321-60-8	
Terphenyl-d14 (S)	92	%	29-134	1	11/11/14 00:00	11/12/14 19:46	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 15:11	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 15:11	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 15:11	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 15:11	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 15:11	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 15:11	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 15:11	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 15:11	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 15:11	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 15:11	75-15-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: DUP-02 **Lab ID: 60182189014** Collected: 11/06/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 15:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 15:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 15:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 15:11	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 15:11	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 15:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 15:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 15:11	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 15:11	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 15:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 15:11	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 15:11	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 15:11	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 15:11	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 15:11	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 15:11	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 15:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 15:11	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 15:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 15:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 15:11	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 15:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 15:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 15:11	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 15:11	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 15:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 15:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 15:11	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 15:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 15:11	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 15:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 15:11	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 15:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 15:11	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 15:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 15:11	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 15:11	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		11/11/14 15:11	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		11/11/14 15:11	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/11/14 15:11	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 15:11		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/17/14 19:57		
Preservation pH	**1.0**		0.10	1		11/17/14 19:57		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: DUP-02 **Lab ID: 60182189014** Collected: 11/06/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		11/11/14 10:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-11 **Lab ID: 60182189015** Collected: 11/06/14 12:41 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 11:26	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 11:26	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 11:26	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 11:26	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 11:26	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 11:26	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 11:26	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 11:26	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 11:26	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 11:26	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 11:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 11:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 11:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 11:26	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 11:26	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 11:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 11:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 11:26	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 11:26	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 11:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 11:26	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 11:26	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 11:26	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 11:26	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 11:26	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 11:26	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 11:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 11:26	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 11:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 11:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 11:26	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 11:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 11:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 11:26	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 11:26	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 11:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 11:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 11:26	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 11:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 11:26	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 11:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 11:26	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 11:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 11:26	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 11:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 11:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 11:26	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-11 **Lab ID: 60182189015** Collected: 11/06/14 12:41 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		11/11/14 11:26	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		11/11/14 11:26	17060-07-0	
Toluene-d8 (S)	101	%	80-120	1		11/11/14 11:26	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 11:26		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/17/14 19:09		
Preservation pH	**1.0**		0.10	1		11/17/14 19:09		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-146 / GW-01 **Lab ID: 60182189016** Collected: 11/06/14 13:57 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:47	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:47	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:47	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:47	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:47	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:47	64742-65-0	
TEH as Diesel No.2	**0.44**	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:47		1e
Surrogates								
p-Terphenyl (S)	85	%	29-122	1	11/10/14 00:00	11/13/14 20:47	92-94-4	
n-Tetracosane (S)	69	%	20-120	1	11/10/14 00:00	11/13/14 20:47	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:47	7440-38-2	
Barium	**106**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:47	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:47	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:47	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:47	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:47	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:47	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:40	7440-38-2	
Barium, Dissolved	**87.8**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:40	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:40	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:40	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:40	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:40	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:40	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/12/14 11:00	11/12/14 16:16	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/14 17:05	11/13/14 12:56	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	106-46-7	
Diethylphthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	105-67-9	
Dimethylphthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.2	1	11/11/14 00:00	11/14/14 17:03	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-146 / GW-01 **Lab ID: 60182189016** Collected: 11/06/14 13:57 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03		
4-Nitrophenol	ND	ug/L	53.2	1	11/11/14 00:00	11/14/14 17:03	100-02-7	
Phenol	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	108-95-2	
Pyridine	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	110-86-1	
Quinoline	ND	ug/L	10.6	1	11/11/14 00:00	11/14/14 17:03	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	65	%	10-135	1	11/11/14 00:00	11/14/14 17:03	4165-60-0	
2-Fluorobiphenyl (S)	74	%	19-124	1	11/11/14 00:00	11/14/14 17:03	321-60-8	
Terphenyl-d14 (S)	98	%	24-131	1	11/11/14 00:00	11/14/14 17:03	1718-51-0	
Phenol-d6 (S)	21	%	10-120	1	11/11/14 00:00	11/14/14 17:03	13127-88-3	
2-Fluorophenol (S)	31	%	13-120	1	11/11/14 00:00	11/14/14 17:03	367-12-4	
2,4,6-Tribromophenol (S)	98	%	29-121	1	11/11/14 00:00	11/14/14 17:03	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 20:07	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 20:07	91-57-6	
Naphthalene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 20:07	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 20:07	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:07	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	70	%	36-120	1	11/11/14 00:00	11/12/14 20:07	321-60-8	
Terphenyl-d14 (S)	69	%	29-134	1	11/11/14 00:00	11/12/14 20:07	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 15:27	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 15:27	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 15:27	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 15:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 15:27	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 15:27	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 15:27	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 15:27	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 15:27	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 15:27	75-15-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-146 / GW-01 **Lab ID: 60182189016** Collected: 11/06/14 13:57 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 15:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 15:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 15:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 15:27	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 15:27	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 15:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 15:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 15:27	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 15:27	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 15:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 15:27	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 15:27	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 15:27	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 15:27	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 15:27	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 15:27	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 15:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 15:27	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 15:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 15:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 15:27	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 15:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 15:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 15:27	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 15:27	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 15:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 15:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 15:27	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 15:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 15:27	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 15:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 15:27	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 15:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 15:27	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 15:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 15:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 15:27	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		11/11/14 15:27	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/11/14 15:27	17060-07-0	
Toluene-d8 (S)	101	%	80-120	1		11/11/14 15:27	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 15:27		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/17/14 20:13		
Preservation pH	**1.0**		0.10	1		11/17/14 20:13		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-146 / GW-01 **Lab ID: 60182189016** Collected: 11/06/14 13:57 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		11/11/14 10:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-147 / GW-02 **Lab ID: 60182189017** Collected: 11/06/14 15:13 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:55	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:55	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:55	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:55	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:55	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:55	64742-65-0	
TEH as Diesel No.2	**0.44**	mg/L	0.40	1	11/10/14 00:00	11/13/14 20:55		1e
Surrogates								
p-Terphenyl (S)	90	%	29-122	1	11/10/14 00:00	11/13/14 20:55	92-94-4	
n-Tetracosane (S)	62	%	20-120	1	11/10/14 00:00	11/13/14 20:55	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**10.4**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:50	7440-38-2	
Barium	**125**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:50	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:50	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:50	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:50	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:50	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:50	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**11.3**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:44	7440-38-2	D9
Barium, Dissolved	**111**	ug/L	10.0	1	11/13/14 14:45	11/14/14 15:44	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/13/14 14:45	11/14/14 15:44	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:44	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/13/14 14:45	11/14/14 15:44	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/13/14 14:45	11/14/14 15:44	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/13/14 14:45	11/14/14 15:44	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/12/14 11:00	11/12/14 16:18	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/12/14 17:05	11/13/14 12:58	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	106-46-7	
Diethylphthalate	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.8	1	11/11/14 00:00	11/14/14 17:23	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-147 / GW-02 **Lab ID: 60182189017** Collected: 11/06/14 15:13 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23		
4-Nitrophenol	ND	ug/L	53.8	1	11/11/14 00:00	11/14/14 17:23	100-02-7	
Phenol	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	108-95-2	
Pyridine	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	110-86-1	
Quinoline	ND	ug/L	10.8	1	11/11/14 00:00	11/14/14 17:23	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	75	%	10-135	1	11/11/14 00:00	11/14/14 17:23	4165-60-0	
2-Fluorobiphenyl (S)	83	%	19-124	1	11/11/14 00:00	11/14/14 17:23	321-60-8	
Terphenyl-d14 (S)	102	%	24-131	1	11/11/14 00:00	11/14/14 17:23	1718-51-0	
Phenol-d6 (S)	23	%	10-120	1	11/11/14 00:00	11/14/14 17:23	13127-88-3	
2-Fluorophenol (S)	36	%	13-120	1	11/11/14 00:00	11/14/14 17:23	367-12-4	
2,4,6-Tribromophenol (S)	100	%	29-121	1	11/11/14 00:00	11/14/14 17:23	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	206-44-0	
Fluorene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 20:27	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 20:27	91-57-6	
Naphthalene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 20:27	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/11/14 00:00	11/12/14 20:27	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/11/14 00:00	11/12/14 20:27	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	81	%	36-120	1	11/11/14 00:00	11/12/14 20:27	321-60-8	
Terphenyl-d14 (S)	77	%	29-134	1	11/11/14 00:00	11/12/14 20:27	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 15:43	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 15:43	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 15:43	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 15:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 15:43	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 15:43	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 15:43	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 15:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 15:43	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 15:43	75-15-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-147 / GW-02 **Lab ID: 60182189017** Collected: 11/06/14 15:13 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 15:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 15:43	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 15:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 15:43	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 15:43	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 15:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 15:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 15:43	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 15:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 15:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 15:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 15:43	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 15:43	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 15:43	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 15:43	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 15:43	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 15:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 15:43	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 15:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 15:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 15:43	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 15:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 15:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 15:43	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 15:43	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 15:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 15:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 15:43	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 15:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 15:43	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 15:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 15:43	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 15:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 15:43	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 15:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 15:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 15:43	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		11/11/14 15:43	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		11/11/14 15:43	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/11/14 15:43	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 15:43		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/17/14 20:29		
Preservation pH	**1.0**		0.10	1		11/17/14 20:29		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: MW-147 / GW-02 **Lab ID: 60182189017** Collected: 11/06/14 15:13 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		11/11/14 10:00		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-12 **Lab ID: 60182189018** Collected: 11/06/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/11/14 11:43	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/11/14 11:43	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/11/14 11:43	994-05-8	
Benzene	ND	ug/L	1.0	1		11/11/14 11:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/11/14 11:43	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/11/14 11:43	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/11/14 11:43	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/11/14 11:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/11/14 11:43	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/11/14 11:43	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/11/14 11:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/11/14 11:43	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/11/14 11:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/11/14 11:43	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/11/14 11:43	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/11/14 11:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/11/14 11:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/11/14 11:43	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/11/14 11:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/11/14 11:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/11/14 11:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/11/14 11:43	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/11/14 11:43	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/11/14 11:43	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/11/14 11:43	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/11/14 11:43	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/11/14 11:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 11:43	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/11/14 11:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/11/14 11:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/11/14 11:43	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/11/14 11:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/11/14 11:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/11/14 11:43	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/11/14 11:43	103-65-1	
Styrene	ND	ug/L	1.0	1		11/11/14 11:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/11/14 11:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/11/14 11:43	127-18-4	
Toluene	ND	ug/L	1.0	1		11/11/14 11:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/11/14 11:43	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/11/14 11:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/11/14 11:43	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 11:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/11/14 11:43	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/11/14 11:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/11/14 11:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/11/14 11:43	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182189

Sample: TB-12 **Lab ID: 60182189018** Collected: 11/06/14 00:00 Received: 11/07/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		11/11/14 11:43	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		11/11/14 11:43	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/11/14 11:43	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/11/14 11:43		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/17/14 19:25		
Preservation pH	**1.0**		0.10	1		11/17/14 19:25		

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: MERP/9040 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

METHOD BLANK: 1477342 Matrix: Water
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/12/14 15:43	

LABORATORY CONTROL SAMPLE: 1477343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.4	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1477346 1477347

Parameter	Units	60182189011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	2.6	3.2	52	63	75-125	19	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: MERP/9045 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

METHOD BLANK: 1477658 Matrix: Water
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	11/13/14 12:23	

LABORATORY CONTROL SAMPLE: 1477659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1477660 1477661

Parameter	Units	60182189011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	2.9	2.8	58	55	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: MPRP/29791 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

METHOD BLANK: 1478729 — Matrix: Water
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	11/15/14 13:56	
Barium	ug/L	ND	10.0	11/15/14 13:56	
Cadmium	ug/L	ND	5.0	11/15/14 13:56	
Chromium	ug/L	ND	5.0	11/15/14 13:56	
Lead	ug/L	ND	5.0	11/15/14 13:56	
Selenium	ug/L	ND	15.0	11/15/14 13:56	
Silver	ug/L	ND	7.0	11/15/14 13:56	

LABORATORY CONTROL SAMPLE: 1478730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	978	98	80-120	
Barium	ug/L	1000	1030	103	80-120	
Cadmium	ug/L	1000	992	99	80-120	
Chromium	ug/L	1000	952	95	80-120	
Lead	ug/L	1000	984	98	80-120	
Selenium	ug/L	1000	956	96	80-120	
Silver	ug/L	500	471	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1478734 — 1478735

Parameter	Units	60182189011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	1060	1100	106	110	75-125	4	20	
Barium	ug/L	32.0	1000	1000	1070	1100	104	106	75-125	2	20	
Cadmium	ug/L	ND	1000	1000	1030	1080	103	108	75-125	4	20	
Chromium	ug/L	ND	1000	1000	918	925	92	92	75-125	1	20	
Lead	ug/L	ND	1000	1000	966	1010	97	101	75-125	5	20	
Selenium	ug/L	ND	1000	1000	1070	1120	107	112	75-125	4	20	
Silver	ug/L	ND	500	500	498	507	99	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: MPRP/29781 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

METHOD BLANK: 1478088 — Matrix: Water
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	10.0	11/14/14 14:44	
Barium, Dissolved	ug/L	ND	10.0	11/14/14 14:44	
Cadmium, Dissolved	ug/L	ND	1.0	11/14/14 14:44	
Chromium, Dissolved	ug/L	ND	5.0	11/14/14 14:44	
Lead, Dissolved	ug/L	ND	5.0	11/14/14 14:44	
Selenium, Dissolved	ug/L	ND	15.0	11/14/14 14:44	
Silver, Dissolved	ug/L	ND	7.0	11/14/14 14:44	

LABORATORY CONTROL SAMPLE: 1478089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	948	95	80-120	
Barium, Dissolved	ug/L	1000	1000	100	80-120	
Cadmium, Dissolved	ug/L	1000	957	96	80-120	
Chromium, Dissolved	ug/L	1000	1000	100	80-120	
Lead, Dissolved	ug/L	1000	960	96	80-120	
Selenium, Dissolved	ug/L	1000	956	96	80-120	
Silver, Dissolved	ug/L	500	487	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1478091 1478092

Parameter	Units	60182189011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	ND	1000	1000	987	992	99	99	75-125	0	20	
Barium, Dissolved	ug/L	29.6	1000	1000	1040	1040	101	101	75-125	0	20	
Cadmium, Dissolved	ug/L	1.1	1000	1000	976	981	97	98	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	986	986	99	99	75-125	0	20	
Lead, Dissolved	ug/L	ND	1000	1000	918	922	91	92	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	996	1000	99	100	75-125	1	20	
Silver, Dissolved	ug/L	ND	500	500	499	499	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: MSV/65665 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60182189002, 60182189003, 60182189004, 60182189005, 60182189006, 60182189007, 60182189008, 60182189009, 60182189011, 60182189012

METHOD BLANK: 1476321 | Matrix: Water
Associated Lab Samples: 60182189002, 60182189003, 60182189004, 60182189005, 60182189006, 60182189007, 60182189008, 60182189009, 60182189011, 60182189012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/11/14 04:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/11/14 04:24	
1,1-Dichloroethane	ug/L	ND	1.0	11/11/14 04:24	
1,1-Dichloroethene	ug/L	ND	1.0	11/11/14 04:24	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/11/14 04:24	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/11/14 04:24	
1,2-Dichloroethane	ug/L	ND	1.0	11/11/14 04:24	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/11/14 04:24	
1,2-Dichloropropane	ug/L	ND	1.0	11/11/14 04:24	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/11/14 04:24	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/11/14 04:24	
2-Butanone (MEK)	ug/L	ND	10.0	11/11/14 04:24	
2-Hexanone	ug/L	ND	10.0	11/11/14 04:24	
4-Chlorotoluene	ug/L	ND	1.0	11/11/14 04:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/11/14 04:24	
Acetone	ug/L	ND	10.0	11/11/14 04:24	
Acrylonitrile	ug/L	ND	20.0	11/11/14 04:24	
Benzene	ug/L	ND	1.0	11/11/14 04:24	
Bromodichloromethane	ug/L	ND	1.0	11/11/14 04:24	
Carbon disulfide	ug/L	ND	5.0	11/11/14 04:24	
Chlorobenzene	ug/L	ND	1.0	11/11/14 04:24	
Chloroethane	ug/L	ND	1.0	11/11/14 04:24	
Chloroform	ug/L	ND	1.0	11/11/14 04:24	
Chloromethane	ug/L	ND	1.0	11/11/14 04:24	
Dibromochloromethane	ug/L	ND	1.0	11/11/14 04:24	
Dibromomethane	ug/L	ND	1.0	11/11/14 04:24	
Diisopropyl ether	ug/L	ND	1.0	11/11/14 04:24	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/11/14 04:24	
Ethylbenzene	ug/L	ND	1.0	11/11/14 04:24	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/11/14 04:24	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/11/14 04:24	
Methylene chloride	ug/L	ND	1.0	11/11/14 04:24	
n-Butylbenzene	ug/L	ND	1.0	11/11/14 04:24	
n-Propylbenzene	ug/L	ND	1.0	11/11/14 04:24	
p-Isopropyltoluene	ug/L	ND	1.0	11/11/14 04:24	
sec-Butylbenzene	ug/L	ND	1.0	11/11/14 04:24	
Styrene	ug/L	ND	1.0	11/11/14 04:24	
tert-Amylmethyl ether	ug/L	ND	1.0	11/11/14 04:24	
tert-Butyl Alcohol	ug/L	ND	10.0	11/11/14 04:24	
Tetrachloroethene	ug/L	ND	1.0	11/11/14 04:24	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

METHOD BLANK: 1476321 Matrix: Water

Associated Lab Samples: 60182189002, 60182189003, 60182189004, 60182189005, 60182189006, 60182189007, 60182189008, 60182189009, 60182189011, 60182189012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	11/11/14 04:24	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/11/14 04:24	
Trichloroethene	ug/L	ND	1.0	11/11/14 04:24	
Trichlorofluoromethane	ug/L	ND	1.0	11/11/14 04:24	
Vinyl acetate	ug/L	ND	10.0	11/11/14 04:24	
Vinyl chloride	ug/L	ND	1.0	11/11/14 04:24	
Xylene (Total)	ug/L	ND	3.0	11/11/14 04:24	
1,2-Dichloroethane-d4 (S)	%	100	80-120	11/11/14 04:24	
4-Bromofluorobenzene (S)	%	99	80-120	11/11/14 04:24	
Toluene-d8 (S)	%	99	80-120	11/11/14 04:24	

LABORATORY CONTROL SAMPLE: 1476322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	95	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	18.0	90	73-124	
1,1-Dichloroethane	ug/L	20	19.3	96	77-120	
1,1-Dichloroethene	ug/L	20	18.4	92	78-126	
1,2,4-Trimethylbenzene	ug/L	20	20.3	101	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	80-127	
1,2-Dichloroethane	ug/L	20	18.9	95	77-123	
1,2-Dichloroethene (Total)	ug/L	40	36.8	92	80-120	
1,2-Dichloropropane	ug/L	20	18.9	95	80-121	
1,3,5-Trimethylbenzene	ug/L	20	20.0	100	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	96.5J	96	44-160	
2-Butanone (MEK)	ug/L	100	93.0	93	52-145	
2-Hexanone	ug/L	100	98.4	98	57-139	
4-Chlorotoluene	ug/L	20	19.1	96	80-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	71-131	
Acetone	ug/L	100	92.7	93	32-155	
Acrylonitrile	ug/L	200	201	100	75-125	
Benzene	ug/L	20	19.0	95	80-120	
Bromodichloromethane	ug/L	20	19.4	97	80-120	
Carbon disulfide	ug/L	20	19.8	99	65-125	
Chlorobenzene	ug/L	20	19.0	95	80-120	
Chloroethane	ug/L	20	16.8	84	55-137	
Chloroform	ug/L	20	19.1	95	79-120	
Chloromethane	ug/L	20	17.9	90	22-138	
Dibromochloromethane	ug/L	20	19.2	96	80-120	
Dibromomethane	ug/L	20	20.8	104	80-122	
Diisopropyl ether	ug/L	20	19.5	97	70-123	
Ethyl-tert-butyl ether	ug/L	20	18.8	94	73-120	
Ethylbenzene	ug/L	20	18.9	94	80-121	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

LABORATORY CONTROL SAMPLE: 1476322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	20	19.5	98	80-136	
Methyl-tert-butyl ether	ug/L	20	19.2	96	74-125	
Methylene chloride	ug/L	20	19.8	99	73-126	
n-Butylbenzene	ug/L	20	19.7	99	83-123	
n-Propylbenzene	ug/L	20	19.4	97	80-122	
p-Isopropyltoluene	ug/L	20	19.5	97	80-124	
sec-Butylbenzene	ug/L	20	19.7	98	80-129	
Styrene	ug/L	20	20.3	101	80-120	
tert-Amylmethyl ether	ug/L	20	19.3	96	74-120	
tert-Butyl Alcohol	ug/L	100	97.9	98	50-139	
Tetrachloroethene	ug/L	20	18.6	93	80-121	
Toluene	ug/L	20	19.9	99	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	21.3	107	59-133	
Trichloroethene	ug/L	20	20.5	102	80-120	
Trichlorofluoromethane	ug/L	20	19.4	97	67-120	
Vinyl acetate	ug/L	20	18.4	92	45-160	
Vinyl chloride	ug/L	20	19.6	98	59-120	
Xylene (Total)	ug/L	60	58.5	98	80-121	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1476323 1476324

Parameter	Units	60182189011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.6	20.3	98	102	71-136	3	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.0	20.1	100	100	61-127	0	21	
1,1-Dichloroethane	ug/L	ND	20	20	19.2	19.7	96	98	62-128	2	25	
1,1-Dichloroethene	ug/L	ND	20	20	19.0	20.6	95	103	60-144	8	28	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.1	20.8	97	100	51-142	4	22	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	20.8	106	104	55-140	1	34	
1,2-Dichloroethane	ug/L	ND	20	20	18.7	19.6	94	98	49-148	5	35	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	38.4	39.7	96	99	62-136	3	20	
1,2-Dichloropropane	ug/L	ND	20	20	19.1	19.8	95	99	66-130	4	22	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.1	20.7	98	102	51-143	3	21	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	100	100	93.4J	100	93	19-160		30	
2-Butanone (MEK)	ug/L	ND	100	100	89.7	91.3	90	91	36-145	2	23	
2-Hexanone	ug/L	ND	100	100	97.1	99.7	97	100	42-140	3	24	
4-Chlorotoluene	ug/L	ND	20	20	19.4	19.9	97	99	67-127	2	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	96.2	99.4	96	99	52-137	3	24	
Acetone	ug/L	ND	100	100	92.9	91.8	90	89	24-151	1	23	
Acrylonitrile	ug/L	ND	200	200	196	200	98	100	67-122	2	30	
Benzene	ug/L	ND	20	20	19.5	20.1	97	100	37-157	3	32	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1476323 1476324

Parameter	Units	60182189011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromodichloromethane	ug/L	ND	20	20	19.5	20.6	98	103	67-125	5	21	
Carbon disulfide	ug/L	ND	20	20	21.2	21.9	106	110	57-133	3	23	
Chlorobenzene	ug/L	ND	20	20	19.9	20.3	100	102	66-133	2	20	
Chloroethane	ug/L	ND	20	20	18.6	19.3	93	97	46-147	3	28	
Chloroform	ug/L	ND	20	20	19.6	20.2	98	101	66-127	3	20	
Chloromethane	ug/L	ND	20	20	20.6	20.8	103	104	19-136	1	36	
Dibromochloromethane	ug/L	ND	20	20	19.7	20.3	98	101	62-130	3	22	
Dibromomethane	ug/L	ND	20	20	20.2	21.1	101	106	63-131	4	24	
Diisopropyl ether	ug/L	ND	20	20	19.2	19.8	96	99	25-157	3	45	
Ethyl-tert-butyl ether	ug/L	ND	20	20	18.5	19.3	93	97	26-155	4	44	
Ethylbenzene	ug/L	ND	20	20	19.7	20.8	98	103	31-160	6	32	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.1	20.9	100	104	66-150	3	20	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.2	19.6	96	98	33-157	2	37	
Methylene chloride	ug/L	ND	20	20	19.5	20.5	98	102	55-132	5	23	
n-Butylbenzene	ug/L	ND	20	20	19.6	20.5	97	101	58-136	5	20	
n-Propylbenzene	ug/L	ND	20	20	19.3	19.8	95	97	56-137	3	20	
p-Isopropyltoluene	ug/L	ND	20	20	19.3	20.4	96	102	50-146	6	21	
sec-Butylbenzene	ug/L	ND	20	20	19.5	20.4	98	102	63-139	5	20	
Styrene	ug/L	ND	20	20	17.4	17.5	87	88	55-134	1	25	
tert-Amylmethyl ether	ug/L	ND	20	20	19.3	19.8	96	99	22-160	3	38	
tert-Butyl Alcohol	ug/L	ND	100	100	101	97.2	101	97	17-160	4	45	
Tetrachloroethene	ug/L	ND	20	20	19.3	19.6	96	98	69-133	2	20	
Toluene	ug/L	ND	20	20	19.4	20.6	96	102	35-157	6	37	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	20.3	20.6	102	103	59-133	1	30	
Trichloroethene	ug/L	ND	20	20	19.0	19.8	95	99	61-135	4	21	
Trichlorofluoromethane	ug/L	ND	20	20	20.1	20.8	101	104	56-130	3	23	
Vinyl acetate	ug/L	ND	20	20	17.8	18.5	89	92	44-160		30	
Vinyl chloride	ug/L	ND	20	20	21.4	22.3	107	112	44-128	4	22	
Xylene (Total)	ug/L	ND	60	60	60.3	61.8	100	103	34-156	2	37	
1,2-Dichloroethane-d4 (S)	%						100	99	80-120			
4-Bromofluorobenzene (S)	%						101	100	80-120			
Toluene-d8 (S)	%						98	99	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: MSV/65679 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60182189001, 60182189005, 60182189013, 60182189014, 60182189015, 60182189016, 60182189017, 60182189018

METHOD BLANK: 1476647 | Matrix: Water
Associated Lab Samples: 60182189001, 60182189005, 60182189013, 60182189014, 60182189015, 60182189016, 60182189017, 60182189018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/11/14 10:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/11/14 10:54	
1,1-Dichloroethane	ug/L	ND	1.0	11/11/14 10:54	
1,1-Dichloroethene	ug/L	ND	1.0	11/11/14 10:54	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/11/14 10:54	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/11/14 10:54	
1,2-Dichloroethane	ug/L	ND	1.0	11/11/14 10:54	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/11/14 10:54	
1,2-Dichloropropane	ug/L	ND	1.0	11/11/14 10:54	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/11/14 10:54	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/11/14 10:54	
2-Butanone (MEK)	ug/L	ND	10.0	11/11/14 10:54	
2-Hexanone	ug/L	ND	10.0	11/11/14 10:54	
4-Chlorotoluene	ug/L	ND	1.0	11/11/14 10:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/11/14 10:54	
Acetone	ug/L	ND	10.0	11/11/14 10:54	
Acrylonitrile	ug/L	ND	20.0	11/11/14 10:54	
Benzene	ug/L	ND	1.0	11/11/14 10:54	
Bromodichloromethane	ug/L	ND	1.0	11/11/14 10:54	
Carbon disulfide	ug/L	ND	5.0	11/11/14 10:54	
Chlorobenzene	ug/L	ND	1.0	11/11/14 10:54	
Chloroethane	ug/L	ND	1.0	11/11/14 10:54	
Chloroform	ug/L	ND	1.0	11/11/14 10:54	
Chloromethane	ug/L	ND	1.0	11/11/14 10:54	
Dibromochloromethane	ug/L	ND	1.0	11/11/14 10:54	
Dibromomethane	ug/L	ND	1.0	11/11/14 10:54	
Diisopropyl ether	ug/L	ND	1.0	11/11/14 10:54	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/11/14 10:54	
Ethylbenzene	ug/L	ND	1.0	11/11/14 10:54	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/11/14 10:54	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/11/14 10:54	
Methylene chloride	ug/L	ND	1.0	11/11/14 10:54	
n-Butylbenzene	ug/L	ND	1.0	11/11/14 10:54	
n-Propylbenzene	ug/L	ND	1.0	11/11/14 10:54	
p-Isopropyltoluene	ug/L	ND	1.0	11/11/14 10:54	
sec-Butylbenzene	ug/L	ND	1.0	11/11/14 10:54	
Styrene	ug/L	ND	1.0	11/11/14 10:54	
tert-Amylmethyl ether	ug/L	ND	1.0	11/11/14 10:54	
tert-Butyl Alcohol	ug/L	ND	10.0	11/11/14 10:54	
Tetrachloroethene	ug/L	ND	1.0	11/11/14 10:54	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

METHOD BLANK: 1476647 Matrix: Water

Associated Lab Samples: 60182189001, 60182189005, 60182189013, 60182189014, 60182189015, 60182189016, 60182189017, 60182189018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	11/11/14 10:54	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/11/14 10:54	
Trichloroethene	ug/L	ND	1.0	11/11/14 10:54	
Trichlorofluoromethane	ug/L	ND	1.0	11/11/14 10:54	
Vinyl acetate	ug/L	ND	10.0	11/11/14 10:54	
Vinyl chloride	ug/L	ND	1.0	11/11/14 10:54	
Xylene (Total)	ug/L	ND	3.0	11/11/14 10:54	
1,2-Dichloroethane-d4 (S)	%	98	80-120	11/11/14 10:54	
4-Bromofluorobenzene (S)	%	99	80-120	11/11/14 10:54	
Toluene-d8 (S)	%	100	80-120	11/11/14 10:54	

LABORATORY CONTROL SAMPLE: 1476648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	96	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	73-124	
1,1-Dichloroethane	ug/L	20	18.8	94	77-120	
1,1-Dichloroethene	ug/L	20	18.6	93	78-126	
1,2,4-Trimethylbenzene	ug/L	20	20.1	101	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	19.9	100	80-127	
1,2-Dichloroethane	ug/L	20	18.9	94	77-123	
1,2-Dichloroethene (Total)	ug/L	40	37.9	95	80-120	
1,2-Dichloropropane	ug/L	20	19.0	95	80-121	
1,3,5-Trimethylbenzene	ug/L	20	20.2	101	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	95.7J	96	44-160	
2-Butanone (MEK)	ug/L	100	87.6	88	52-145	
2-Hexanone	ug/L	100	97.0	97	57-139	
4-Chlorotoluene	ug/L	20	19.7	99	80-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.7	94	71-131	
Acetone	ug/L	100	89.3	89	32-155	
Acrylonitrile	ug/L	200	192	96	75-125	
Benzene	ug/L	20	19.1	95	80-120	
Bromodichloromethane	ug/L	20	20.0	100	80-120	
Carbon disulfide	ug/L	20	20.4	102	65-125	
Chlorobenzene	ug/L	20	19.9	100	80-120	
Chloroethane	ug/L	20	18.0	90	55-137	
Chloroform	ug/L	20	19.0	95	79-120	
Chloromethane	ug/L	20	18.8	94	22-138	
Dibromochloromethane	ug/L	20	19.8	99	80-120	
Dibromomethane	ug/L	20	20.7	103	80-122	
Diisopropyl ether	ug/L	20	18.9	94	70-123	
Ethyl-tert-butyl ether	ug/L	20	18.6	93	73-120	
Ethylbenzene	ug/L	20	20.0	100	80-121	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

LABORATORY CONTROL SAMPLE: 1476648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	20	20.5	103	80-136	
Methyl-tert-butyl ether	ug/L	20	18.6	93	74-125	
Methylene chloride	ug/L	20	19.5	98	73-126	
n-Butylbenzene	ug/L	20	20.8	104	83-123	
n-Propylbenzene	ug/L	20	19.6	98	80-122	
p-Isopropyltoluene	ug/L	20	20.3	101	80-124	
sec-Butylbenzene	ug/L	20	20.1	101	80-129	
Styrene	ug/L	20	21.1	106	80-120	
tert-Amylmethyl ether	ug/L	20	19.2	96	74-120	
tert-Butyl Alcohol	ug/L	100	90.3	90	50-139	
Tetrachloroethene	ug/L	20	19.7	99	80-121	
Toluene	ug/L	20	19.7	99	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	21.4	107	59-133	
Trichloroethene	ug/L	20	19.0	95	80-120	
Trichlorofluoromethane	ug/L	20	19.7	98	67-120	
Vinyl acetate	ug/L	20	18.3	91	45-160	
Vinyl chloride	ug/L	20	20.4	102	59-120	
Xylene (Total)	ug/L	60	60.2	100	80-121	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: MSV/65672 Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60182189002, 60182189003, 60182189004, 60182189005, 60182189006, 60182189007, 60182189008, 60182189009, 60182189011, 60182189012

METHOD BLANK: 1476383 Matrix: Water
Associated Lab Samples: 60182189002, 60182189003, 60182189004, 60182189005, 60182189006, 60182189007, 60182189008, 60182189009, 60182189011, 60182189012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/11/14 04:24	

LABORATORY CONTROL SAMPLE: 1476384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.3	82	62-121	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: MSV/65797 Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60182189001, 60182189013, 60182189014, 60182189015, 60182189016, 60182189017, 60182189018

METHOD BLANK: 1480199 Matrix: Water
Associated Lab Samples: 60182189001, 60182189013, 60182189014, 60182189015, 60182189016, 60182189017, 60182189018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/17/14 16:44	

LABORATORY CONTROL SAMPLE: 1480200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.4	85	62-121	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: OEXT/47062 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

METHOD BLANK: 1476437 | Matrix: Water
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichlorobenzene	ug/L	ND	10.0	11/14/14 11:33	
1,3-Dichlorobenzene	ug/L	ND	10.0	11/14/14 11:33	
1,4-Dichlorobenzene	ug/L	ND	10.0	11/14/14 11:33	
2,4-Dimethylphenol	ug/L	ND	10.0	11/14/14 11:33	
2,4-Dinitrophenol	ug/L	ND	50.0	11/14/14 11:33	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	11/14/14 11:33	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/14/14 11:33	
4-Nitrophenol	ug/L	ND	50.0	11/14/14 11:33	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	11/14/14 11:33	
Di-n-butylphthalate	ug/L	ND	10.0	11/14/14 11:33	
Diethylphthalate	ug/L	ND	10.0	11/14/14 11:33	
Dimethylphthalate	ug/L	ND	10.0	11/14/14 11:33	
Phenol	ug/L	ND	10.0	11/14/14 11:33	
Pyridine	ug/L	ND	10.0	11/14/14 11:33	
Quinoline	ug/L	ND	10.0	11/14/14 11:33	
2,4,6-Tribromophenol (S)	%	83	29-121	11/14/14 11:33	
2-Fluorobiphenyl (S)	%	71	19-124	11/14/14 11:33	
2-Fluorophenol (S)	%	36	13-120	11/14/14 11:33	
Nitrobenzene-d5 (S)	%	64	10-135	11/14/14 11:33	
Phenol-d6 (S)	%	23	10-120	11/14/14 11:33	
Terphenyl-d14 (S)	%	88	24-131	11/14/14 11:33	

LABORATORY CONTROL SAMPLE: 1476438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	42.6	85	45-120	
1,3-Dichlorobenzene	ug/L	50	42.3	85	44-120	
1,4-Dichlorobenzene	ug/L	50	41.8	84	44-120	
2,4-Dimethylphenol	ug/L	50	43.9	88	35-120	
2,4-Dinitrophenol	ug/L	50	52.8	106	21-120	
2-Methylphenol(o-Cresol)	ug/L	50	37.4	75	40-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.8	68	34-120	
4-Nitrophenol	ug/L	50	20.1J	40	10-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	50.3	101	52-123	
Di-n-butylphthalate	ug/L	50	49.2	98	49-125	
Diethylphthalate	ug/L	50	46.0	92	53-120	
Dimethylphthalate	ug/L	50	45.3	91	52-120	
Phenol	ug/L	50	15.5	31	12-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

LABORATORY CONTROL SAMPLE: 1476438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyridine	ug/L	50	7J	14	10-120	
Quinoline	ug/L	50	25.8	52	37-120	
2,4,6-Tribromophenol (S)	%			98	29-121	
2-Fluorobiphenyl (S)	%			85	19-124	
2-Fluorophenol (S)	%			42	13-120	
Nitrobenzene-d5 (S)	%			81	10-135	
Phenol-d6 (S)	%			26	10-120	
Terphenyl-d14 (S)	%			100	24-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1476439 1476440

Parameter	Units	60182189011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene	ug/L	ND	53.8	50	40.0	38.7	74	77	32-120	3	23	
1,3-Dichlorobenzene	ug/L	ND	53.8	50	39.1	37.8	73	76	32-120	3	20	
1,4-Dichlorobenzene	ug/L	ND	53.8	50	38.6	37.6	72	75	27-120	3	21	
2,4-Dimethylphenol	ug/L	ND	53.8	50	39.6	38.6	74	77	10-137	2	29	
2,4-Dinitrophenol	ug/L	ND	53.8	50	52.1J	53.0	97	106	17-123		22	
2-Methylphenol(o-Cresol)	ug/L	ND	53.8	50	34.3	32.4	64	65	10-120	6	21	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	53.8	50	30.9	28.7	57	57	10-120	7	36	
4-Nitrophenol	ug/L	ND	53.8	50	19.5J	19J	36	38	10-120		25	
bis(2-Ethylhexyl)phthalate	ug/L	ND	53.8	50	45.6	46.8	85	94	42-120	3	22	
Di-n-butylphthalate	ug/L	ND	53.8	50	46.2	46.7	86	93	35-120	1	20	
Diethylphthalate	ug/L	ND	53.8	50	44.0	45.3	82	91	37-120	3	20	
Dimethylphthalate	ug/L	ND	53.8	50	42.7	43.5	79	87	36-120	2	20	
Phenol	ug/L	ND	53.8	50	15.7	13.4	29	27	10-120	16	21	
Pyridine	ug/L	ND	53.8	50	16.2	13.3	30	27	1-120	20	32	
Quinoline	ug/L	ND	53.8	50	39.1	38.4	73	77	30-125	2	30	
2,4,6-Tribromophenol (S)	%						89	99	29-121			
2-Fluorobiphenyl (S)	%						74	81	19-124			
2-Fluorophenol (S)	%						35	34	13-120			
Nitrobenzene-d5 (S)	%						70	76	10-135			
Phenol-d6 (S)	%						22	22	10-120			
Terphenyl-d14 (S)	%						87	96	24-131			

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: OEXT/47060 | Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C | Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

METHOD BLANK: 1476424 | Matrix: Water
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.50	11/12/14 15:42	
2-Methylnaphthalene	ug/L	ND	0.50	11/12/14 15:42	
Acenaphthene	ug/L	ND	0.10	11/12/14 15:42	
Acenaphthylene	ug/L	ND	0.10	11/12/14 15:42	
Anthracene	ug/L	ND	0.10	11/12/14 15:42	
Benzo(a)anthracene	ug/L	ND	0.10	11/12/14 15:42	
Benzo(a)pyrene	ug/L	ND	0.10	11/12/14 15:42	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/12/14 15:42	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/12/14 15:42	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/12/14 15:42	
Chrysene	ug/L	ND	0.10	11/12/14 15:42	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/12/14 15:42	
Fluoranthene	ug/L	ND	0.10	11/12/14 15:42	
Fluorene	ug/L	ND	0.10	11/12/14 15:42	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/12/14 15:42	
Naphthalene	ug/L	ND	0.50	11/12/14 15:42	
Phenanthrene	ug/L	ND	0.50	11/12/14 15:42	
Pyrene	ug/L	ND	0.10	11/12/14 15:42	
2-Fluorobiphenyl (S)	%	76	36-120	11/12/14 15:42	
Terphenyl-d14 (S)	%	76	29-134	11/12/14 15:42	

LABORATORY CONTROL SAMPLE: 1476425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	9.6	96	59-120	
2-Methylnaphthalene	ug/L	10	9.8	98	52-120	
Acenaphthene	ug/L	10	9.1	91	45-120	
Acenaphthylene	ug/L	10	9.8	98	42-120	
Anthracene	ug/L	10	9.6	96	39-120	
Benzo(a)anthracene	ug/L	10	10.7	107	40-125	
Benzo(a)pyrene	ug/L	10	10.6	106	39-122	
Benzo(b)fluoranthene	ug/L	10	9.9	99	33-134	
Benzo(g,h,i)perylene	ug/L	10	8.7	87	27-126	
Benzo(k)fluoranthene	ug/L	10	8.8	88	43-123	
Chrysene	ug/L	10	8.1	81	44-120	
Dibenz(a,h)anthracene	ug/L	10	9.7	97	21-129	
Fluoranthene	ug/L	10	10.2	102	45-126	
Fluorene	ug/L	10	9.9	99	44-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

LABORATORY CONTROL SAMPLE: 1476425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	10	9.3	93	25-127	
Naphthalene	ug/L	10	9.1	91	44-120	
Phenanthrene	ug/L	10	9.2	92	43-120	
Pyrene	ug/L	10	8.2	82	39-120	
2-Fluorobiphenyl (S)	%			91	36-120	
Terphenyl-d14 (S)	%			87	29-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1476426 1476427

Parameter	Units	60182189011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	9.1	10	8.2	9.1	90	91	59-120	10	30	
2-Methylnaphthalene	ug/L	ND	9.1	10	8.5	9.5	93	94	52-120	11	30	
Acenaphthene	ug/L	ND	9.1	10	7.9	8.9	87	89	40-120	12	37	
Acenaphthylene	ug/L	ND	9.1	10	9.0	9.9	99	99	41-120	9	32	
Anthracene	ug/L	ND	9.1	10	8.8	9.6	97	96	33-121	9	26	
Benzo(a)anthracene	ug/L	ND	9.1	10	9.6	10.7	105	107	40-125	11	28	
Benzo(a)pyrene	ug/L	ND	9.1	10	9.3	10.2	102	102	43-122	10	29	
Benzo(b)fluoranthene	ug/L	ND	9.1	10	9.4	9.7	104	97	34-130	3	38	
Benzo(g,h,i)perylene	ug/L	ND	9.1	10	8.1	9.1	89	91	42-127	12	29	
Benzo(k)fluoranthene	ug/L	ND	9.1	10	7.1	8.1	78	81	49-120	14	27	
Chrysene	ug/L	ND	9.1	10	7.3	7.9	80	79	47-120	8	25	
Dibenz(a,h)anthracene	ug/L	ND	9.1	10	9.1	9.8	100	98	40-120	8	25	
Fluoranthene	ug/L	ND	9.1	10	9.2	9.9	101	99	45-125	7	31	
Fluorene	ug/L	ND	9.1	10	8.8	10	97	100	42-120	13	27	
Indeno(1,2,3-cd)pyrene	ug/L	ND	9.1	10	8.8	9.6	96	96	34-130	9	24	
Naphthalene	ug/L	ND	9.1	10	8.0	9.0	87	89	24-128	12	25	
Phenanthrene	ug/L	ND	9.1	10	8.3	9.3	90	91	38-120	11	29	
Pyrene	ug/L	ND	9.1	10	7.3	8.0	80	80	44-120	8	34	
2-Fluorobiphenyl (S)	%						88	88	36-120			
Terphenyl-d14 (S)	%						83	82	29-134			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: OEXT/47053 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

METHOD BLANK: 1476280 Matrix: Water
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	11/13/14 18:50	
Fuel Oil	mg/L	ND	0.40	11/13/14 18:50	
Jet Fuel	mg/L	ND	0.40	11/13/14 18:50	
Kerosene	mg/L	ND	0.40	11/13/14 18:50	
Mineral Spirits	mg/L	ND	0.40	11/13/14 18:50	
Motor Oil	mg/L	ND	0.40	11/13/14 18:50	
TEH as Diesel No.2	mg/L	ND	0.40	11/13/14 18:50	
n-Tetracosane (S)	%	32	20-120	11/13/14 18:50	
p-Terphenyl (S)	%	77	29-122	11/13/14 18:50	

LABORATORY CONTROL SAMPLE: 1476281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	8.8	70	60-122	
n-Tetracosane (S)	%			61	20-120	
p-Terphenyl (S)	%			83	29-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1476282 1476283

Parameter	Units	60182189011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel	mg/L	ND	12.5	11.4	11.5	9.5	92	84	60-135	19	30	
n-Tetracosane (S)	%						98	91	20-120			
p-Terphenyl (S)	%						102	94	29-122			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182189

QC Batch: WET/51477 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60182189001, 60182189002, 60182189004, 60182189005, 60182189007, 60182189008, 60182189011, 60182189013, 60182189014, 60182189016, 60182189017

SAMPLE DUPLICATE: 1476608

Parameter	Units	60182189011 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.8	6.8	0	5	H6

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QUALIFIERS

Project: KDHE NEODESHA
Pace Project No.: 60182189

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/65672

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65679

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65797

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to early motor oil range. Quantitation achieved using diesel fuel as a reference standard.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60182189001	**MW-159 / GW-01**	OA2	OEXT/47053	OA2	GCSV/17943
60182189002	**MW-158 / GW-01**	OA2	OEXT/47053	OA2	GCSV/17943
60182189004	**MW-157 / GW-01**	OA2	OEXT/47053	OA2	GCSV/17943
60182189005	**MW-168 / GW-01**	OA2	OEXT/47053	OA2	GCSV/17943
60182189007	**MW-172 / GW-01**	OA2	OEXT/47053	OA2	GCSV/17943
60182189008	**FIELD BLANK-03**	OA2	OEXT/47053	OA2	GCSV/17943
60182189011	**MW-148 / GW-01 MS/MSD**	OA2	OEXT/47053	OA2	GCSV/17943
60182189013	**MW-145 / GW-01**	OA2	OEXT/47053	OA2	GCSV/17943
60182189014	**DUP-02**	OA2	OEXT/47053	OA2	GCSV/17943
60182189016	**MW-146 / GW-01**	OA2	OEXT/47053	OA2	GCSV/17943
60182189017	**MW-147 / GW-02**	OA2	OEXT/47053	OA2	GCSV/17943
60182189001	**MW-159 / GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182189002	**MW-158 / GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182189004	**MW-157 / GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182189005	**MW-168 / GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182189007	**MW-172 / GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182189008	**FIELD BLANK-03**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182189011	**MW-148 / GW-01 MS/MSD**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182189013	**MW-145 / GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182189014	**DUP-02**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182189016	**MW-146 / GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182189017	**MW-147 / GW-02**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182189001	**MW-159 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182189002	**MW-158 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182189004	**MW-157 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182189005	**MW-168 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182189007	**MW-172 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182189008	**FIELD BLANK-03**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182189011	**MW-148 / GW-01 MS/MSD**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182189013	**MW-145 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182189014	**DUP-02**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182189016	**MW-146 / GW-01**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182189017	**MW-147 / GW-02**	EPA 3010	MPRP/29781	EPA 6010	ICP/22312
60182189001	**MW-159 / GW-01**	EPA 7470	MERP/9040	EPA 7470	MERC/8993
60182189002	**MW-158 / GW-01**	EPA 7470	MERP/9040	EPA 7470	MERC/8993
60182189004	**MW-157 / GW-01**	EPA 7470	MERP/9040	EPA 7470	MERC/8993
60182189005	**MW-168 / GW-01**	EPA 7470	MERP/9040	EPA 7470	MERC/8993
60182189007	**MW-172 / GW-01**	EPA 7470	MERP/9040	EPA 7470	MERC/8993
60182189008	**FIELD BLANK-03**	EPA 7470	MERP/9040	EPA 7470	MERC/8993
60182189011	**MW-148 / GW-01 MS/MSD**	EPA 7470	MERP/9040	EPA 7470	MERC/8993
60182189013	**MW-145 / GW-01**	EPA 7470	MERP/9040	EPA 7470	MERC/8993
60182189014	**DUP-02**	EPA 7470	MERP/9040	EPA 7470	MERC/8993
60182189016	**MW-146 / GW-01**	EPA 7470	MERP/9040	EPA 7470	MERC/8993
60182189017	**MW-147 / GW-02**	EPA 7470	MERP/9040	EPA 7470	MERC/8993
60182189001	**MW-159 / GW-01**	EPA 7470	MERP/9045	EPA 7470	MERC/8997
60182189002	**MW-158 / GW-01**	EPA 7470	MERP/9045	EPA 7470	MERC/8997
60182189004	**MW-157 / GW-01**	EPA 7470	MERP/9045	EPA 7470	MERC/8997

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60182189005	**MW-168 / GW-01**	EPA 7470	MERP/9045	EPA 7470	MERC/8997
60182189007	**MW-172 / GW-01**	EPA 7470	MERP/9045	EPA 7470	MERC/8997
60182189008	**FIELD BLANK-03**	EPA 7470	MERP/9045	EPA 7470	MERC/8997
60182189011	**MW-148 / GW-01 MS/MSD**	EPA 7470	MERP/9045	EPA 7470	MERC/8997
60182189013	**MW-145 / GW-01**	EPA 7470	MERP/9045	EPA 7470	MERC/8997
60182189014	**DUP-02**	EPA 7470	MERP/9045	EPA 7470	MERC/8997
60182189016	**MW-146 / GW-01**	EPA 7470	MERP/9045	EPA 7470	MERC/8997
60182189017	**MW-147 / GW-02**	EPA 7470	MERP/9045	EPA 7470	MERC/8997
60182189001	**MW-159 / GW-01**	EPA 3510	OEXT/47062	EPA 8270	MSSV/15171
60182189002	**MW-158 / GW-01**	EPA 3510	OEXT/47062	EPA 8270	MSSV/15171
60182189004	**MW-157 / GW-01**	EPA 3510	OEXT/47062	EPA 8270	MSSV/15171
60182189005	**MW-168 / GW-01**	EPA 3510	OEXT/47062	EPA 8270	MSSV/15171
60182189007	**MW-172 / GW-01**	EPA 3510	OEXT/47062	EPA 8270	MSSV/15171
60182189008	**FIELD BLANK-03**	EPA 3510	OEXT/47062	EPA 8270	MSSV/15171
60182189011	**MW-148 / GW-01 MS/MSD**	EPA 3510	OEXT/47062	EPA 8270	MSSV/15171
60182189013	**MW-145 / GW-01**	EPA 3510	OEXT/47062	EPA 8270	MSSV/15171
60182189014	**DUP-02**	EPA 3510	OEXT/47062	EPA 8270	MSSV/15171
60182189016	**MW-146 / GW-01**	EPA 3510	OEXT/47062	EPA 8270	MSSV/15171
60182189017	**MW-147 / GW-02**	EPA 3510	OEXT/47062	EPA 8270	MSSV/15171
60182189001	**MW-159 / GW-01**	EPA 3510C	OEXT/47060	EPA 8270C by SIM	MSSV/15163
60182189002	**MW-158 / GW-01**	EPA 3510C	OEXT/47060	EPA 8270C by SIM	MSSV/15163
60182189004	**MW-157 / GW-01**	EPA 3510C	OEXT/47060	EPA 8270C by SIM	MSSV/15163
60182189005	**MW-168 / GW-01**	EPA 3510C	OEXT/47060	EPA 8270C by SIM	MSSV/15163
60182189007	**MW-172 / GW-01**	EPA 3510C	OEXT/47060	EPA 8270C by SIM	MSSV/15163
60182189008	**FIELD BLANK-03**	EPA 3510C	OEXT/47060	EPA 8270C by SIM	MSSV/15163
60182189011	**MW-148 / GW-01 MS/MSD**	EPA 3510C	OEXT/47060	EPA 8270C by SIM	MSSV/15163
60182189013	**MW-145 / GW-01**	EPA 3510C	OEXT/47060	EPA 8270C by SIM	MSSV/15163
60182189014	**DUP-02**	EPA 3510C	OEXT/47060	EPA 8270C by SIM	MSSV/15163
60182189016	**MW-146 / GW-01**	EPA 3510C	OEXT/47060	EPA 8270C by SIM	MSSV/15163
60182189017	**MW-147 / GW-02**	EPA 3510C	OEXT/47060	EPA 8270C by SIM	MSSV/15163
60182189001	**MW-159 / GW-01**	EPA 5030B/8260	MSV/65679		
60182189002	**MW-158 / GW-01**	EPA 5030B/8260	MSV/65665		
60182189003	**TB-07**	EPA 5030B/8260	MSV/65665		
60182189004	**MW-157 / GW-01**	EPA 5030B/8260	MSV/65665		
60182189005	**MW-168 / GW-01**	EPA 5030B/8260	MSV/65665		
60182189005	**MW-168 / GW-01**	EPA 5030B/8260	MSV/65679		
60182189006	**TB-08**	EPA 5030B/8260	MSV/65665		
60182189007	**MW-172 / GW-01**	EPA 5030B/8260	MSV/65665		
60182189008	**FIELD BLANK-03**	EPA 5030B/8260	MSV/65665		
60182189009	**TB-09**	EPA 5030B/8260	MSV/65665		
60182189011	**MW-148 / GW-01 MS/MSD**	EPA 5030B/8260	MSV/65665		
60182189012	**TB-10**	EPA 5030B/8260	MSV/65665		
60182189013	**MW-145 / GW-01**	EPA 5030B/8260	MSV/65679		
60182189014	**DUP-02**	EPA 5030B/8260	MSV/65679		
60182189015	**TB-11**	EPA 5030B/8260	MSV/65679		

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60182189

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60182189016	**MW-146 / GW-01**	EPA 5030B/8260	MSV/65679		
60182189017	**MW-147 / GW-02**	EPA 5030B/8260	MSV/65679		
60182189018	**TB-12**	EPA 5030B/8260	MSV/65679		
60182189001	**MW-159 / GW-01**	EPA 8260/OA1	MSV/65797		
60182189002	**MW-158 / GW-01**	EPA 8260/OA1	MSV/65672		
60182189003	**TB-07**	EPA 8260/OA1	MSV/65672		
60182189004	**MW-157 / GW-01**	EPA 8260/OA1	MSV/65672		
60182189005	**MW-168 / GW-01**	EPA 8260/OA1	MSV/65672		
60182189006	**TB-08**	EPA 8260/OA1	MSV/65672		
60182189007	**MW-172 / GW-01**	EPA 8260/OA1	MSV/65672		
60182189008	**FIELD BLANK-03**	EPA 8260/OA1	MSV/65672		
60182189009	**TB-09**	EPA 8260/OA1	MSV/65672		
60182189011	**MW-148 / GW-01 MS/MSD**	EPA 8260/OA1	MSV/65672		
60182189012	**TB-10**	EPA 8260/OA1	MSV/65672		
60182189013	**MW-145 / GW-01**	EPA 8260/OA1	MSV/65797		
60182189014	**DUP-02**	EPA 8260/OA1	MSV/65797		
60182189015	**TB-11**	EPA 8260/OA1	MSV/65797		
60182189016	**MW-146 / GW-01**	EPA 8260/OA1	MSV/65797		
60182189017	**MW-147 / GW-02**	EPA 8260/OA1	MSV/65797		
60182189018	**TB-12**	EPA 8260/OA1	MSV/65797		
60182189001	**MW-159 / GW-01**	SM 4500-H+B	WET/51477		
60182189002	**MW-158 / GW-01**	SM 4500-H+B	WET/51477		
60182189004	**MW-157 / GW-01**	SM 4500-H+B	WET/51477		
60182189005	**MW-168 / GW-01**	SM 4500-H+B	WET/51477		
60182189007	**MW-172 / GW-01**	SM 4500-H+B	WET/51477		
60182189008	**FIELD BLANK-03**	SM 4500-H+B	WET/51477		
60182189011	**MW-148 / GW-01 MS/MSD**	SM 4500-H+B	WET/51477		
60182189013	**MW-145 / GW-01**	SM 4500-H+B	WET/51477		
60182189014	**DUP-02**	SM 4500-H+B	WET/51477		
60182189016	**MW-146 / GW-01**	SM 4500-H+B	WET/51477		
60182189017	**MW-147 / GW-02**	SM 4500-H+B	WET/51477		

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Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60182189

60182189

Optional
Proj Due Date:
Proj Name:

Client Name: Burns + McDonnell

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: see attachment Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☒ 2ALC

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2.4 1.6 2.8 1.2 5.0 4.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JB 11/7

Chain of Custody present:	☒Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☒Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☒Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☒Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time requested:	☐Yes	☒No	☐N/A	7.
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	
Pace containers used:	☒Yes	☐No	☐N/A	9.
Containers intact:	☒Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☒N/A	12.
Sample labels match COC:	☒Yes	☐No	☐N/A	
Includes date/time/ID/analyses Matrix: WT				13.
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	Preserved 1 A&4h from each sample, Added 1 mL HNO3, initial pH 6.0, Final pH 2.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes	☐No	☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐Yes	☒No		Initial when completed JB Lot # of added preservative 1291J-37-10
Trip Blank present:	☐Yes	☐No	☒N/A	
Pace Trip Blank lot # (if purchased):				15.
Headspace in VOA vials (>6mm):	☐Yes	☒No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒N/A	17. List State: KS

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: ADDED pH AND TOTAL RCRA-8 METALS TO COC

Project Manager Review: _____ Date: 11/11/14

Burns & McDonnell SINCE 1898

021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LORET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No: 601821189
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KDHE NEODESHA

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Matrix: Liquid	Matrix: Solid	Matrix: Gas	Number of Containers	VOC 8260/GRO OAI	SVOC 8270	RCRA 8 - FIELD FILTER	PAH 8270 SIM	OA2	pH, TOTAL RCRA 8	Remarks
MW-159/GW-01		(2) AG1U (4) AG1U	B3F 2.0	(3) DG4N			11/5/14	1556	X			10	X	X	X	X	X	✓	FIELD FILTERED 001
MW-158/GW-01		↓ ↓	↓	↓			11/5/14	1703	X			10	X	X	X	X	X	✓	FIELD FILTERED 002
TB-07		(2) DG4N					11/5/14	—	X			2	X						003

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. Date/Time 11/6/14 1000

Received By (signature): Date/Time 11/7 0830

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 5.0

Relinquished By (signature): 2. Date/Time

Received By (signature): Date/Time

Laboratory Comments:

Burns & McDonnell SINCE 1898

021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LORET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No: 60182189
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KDHE NEODESHA

	Sample Number			Sample Event		Sample Depth (in feet)		Sample Collected		Sample Type / Matrix			Number of Containers	Analysis						Remarks
	Group or SWMU Name	Sample Point	Sample Designator	Round	Year	From	To	Date	Time	Liquid	Solid	Gas		VOC 8260 / GRO OAI	SVOC 8270	RCRA-8 - FILTERED	PAH 8270 SIM	OA2	PH, TOTAL VOA 8	
1	MW-157	GW-01	(2) AG1L (4) AG4L	BP3F 2.0	(3) DG4H			11/5/14	1754	X			10	X	X	X	X	X	✓	FIELD FILTERED 004
✓	MW-168	GW-01	↓ ↓	↓	↓			11/5/14	1918	X			10	X	X	X	X	X	✓	FIELD FILTERED 005
✓	TB-08		(2) DG4H					11/6/14	—	X			2	X						004

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. — Date/Time 11/6/14 1600

Received By (signature): — Date/Time 11/7 0830

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 1.2

Relinquished By (signature): 2. — Date/Time

Received By (signature): — Date/Time

Laboratory Comments:

Burns & McDonnell
SINCE 1898
021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LOIRET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No: 60182189
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KOHE NEOOESHA

Group or SWMU Name	Sample Point	Sample Designator	Round	Year	From	To	Date	Time	Liquid	Solid	Gas	Number of Containers	VOC 8260/GRO-DAL	SVOC ~~8270~~ 8270	RCRA-8-FILTERED	PAH 8270 SIM	DAZ	CH	TOTAL VOCAB	Remarks
MW-172	GW-01	(2)AGHL (4)AGHL	BP3F 2.0	(3)DGAH			11/6/14	0833	X			10	X	X	X	X	X	✓		FIELD FILTERED 007
FIELD BLANK-03		↓ ↓	↓	↓			11/6/14	0843	X			10	X	X	X	X	X	✓		FIELD FILTERED 008
TB-09		(2)DGAH					11/6/14	—	X			2	X							009

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. Date/Time 11/6/14 1600

Received By (signature): Date/Time 11/7 0830

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 2.4

Relinquished By (signature): 2. Date/Time

Received By (signature): Date/Time

Laboratory Comments:

Burns & McDonnell
SINCE 1898
021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LORET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No: 60182189
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KDHE NEODESHA

	Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Sample Type: Matrix: Liquid	Sample Type: Matrix: Solid	Sample Type: Matrix: Gas	Number of Containers	Analysis: VOC 8260 / GRO DAI	Analysis: SVOC 8270	Analysis: RCRA-8-FILTERED	Analysis: PAH 8270 SIM	Analysis: DA2	Analysis: pH, TOTAL, TCRA8	Remarks
1	MW-143/GW-01		(2)AG4U (4)AG4U BP3F 2.0 (3)DG4U					11/6/14	1020	X			10	X	X	X	X	X	✓	FIELD FILTERED a0
2x	~~DUP~~ MW-143/MS/MSD		(4)AG4U (8)AG4U (2)BP3F 2.0 (6)DG4U					11/6/14	—	X			20	X	X	X	X	X	✓	FIELD FILTERED a1
1	TB-10		(2)DG4U					11/6/14	—	X			2	X						a2

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. — Date/Time 11/6/14 1100

Received By (signature): — Date/Time 11/7 0850

Relinquished By (signature): 2. — Date/Time

Received By (signature): — Date/Time

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 1.6

Laboratory Comments:

Burns & McDonnell SINCE 1898

021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LORET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No:
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KANE NEODESHA

Group or SWMU Name	Sample Point	Sample Designator	Round	Year	From	To	Date	Time	Liquid	Solid	Gas	Number of Containers	VOC 8260 /GRO CAI	SVOC 8270	RCRA-8-FILTERED	PAH 8270 SIM	CA2	PH, TDMC, TDRAB	Remarks
MW-145/GW-01		(2)AG1U (4)AG4U	BP3F 2.0	(3)DG4H			11/6/14	1241	X			10	X	X	X	X	X	✓	FIELD FILTERED 013
DUP-02		↓ ↓	↓	↓			11/6/14	—	X			10	X	X	X	X	X	✓	FIELD FILTERED 014
TB-11		(2)DG4H					11/6/14	—	X			2	X						015

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. — Date/Time 11/6/14 1600

Received By (signature): — Date/Time 11/7 0830

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 4.2

Relinquished By (signature): 2. — Date/Time

Received By (signature): — Date/Time

Laboratory Comments:

Burns & McDonnell SINCE 1898

021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LORET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No:
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KOHE NEODESHA

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Sample Type: Matrix: Liquid	Matrix: Solid	Matrix: Gas	Number of Containers	Analysis: VOC 8260 / GRO CAL	SVOC 8270	RCRA-8 - FILTERED	PAH 8270 SIM	OAZ	PH + TOTAL/DIAL	Remarks
MW-146	GW-01	(2) AGIU (4) AGHU	DP3F 2.0	(3) DGAH			11/6/14	1357	X			10	X	X	X	X	X	✓	FIELD FILTERED 016
MW-147	GW-01						11/6/14	1513	X			10	X	X	X	X	X	✓	FIELD FILTERED 017
TB-12		(2) DGAH					11/6/14	—	X			2	X						018

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature):	Date/Time	Received By (signature):	Date/Time
1.	11/6/14 1600		11/7 0859
2.			

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 2.8

Laboratory Comments:

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189001 Client Smp ID: MW-159 / GW-01
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 15:59

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 96-37-7	Cyclopentane, methyl-	2.517	220	NJ
2. 2452-99-5	Cyclopentane, 1,2-dimethyl-	3.250	110	NJ
3. 591-47-9	Cyclohexene, 4-methyl-	3.933	100	NJ
4. 591-49-1	Cyclohexene, 1-methyl-	4.268	100	NJ
5. 496-11-7	Indane	7.110	220	NJ
6. 874-41-9	Benzene, 1-ethyl-2,4-dimeth	7.436	100	NJ
7. 767-58-8	Indan, 1-methyl-	7.509	210	NJ
8. 2039-89-6	Benzene, 2-ethenyl-1,4-dime	7.928	97	NJ
9. 2039-89-6	Benzene, 2-ethenyl-1,4-dime	8.038	390	NJ
10. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-	8.370	100	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189002 Client Smp ID: MW-158 / GW-01
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 05:29

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189003 Client Smp ID: TB-07
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 04:40

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189004 Client Smp ID: MW-157 / GW-01
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 06:01

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 106-97-8	Butane	1.031	8.10	NJ__
2. 78-78-4	Butane, 2-methyl-	1.237	23	NJ__
3. 79-29-8	Butane, 2,3-dimethyl-	1.791	7.02	NJ__
4. 1638-26-2	Cyclopentane, 1,1-dimethyl-	3.063	6.30	NJ__
5. 2452-99-5	Cyclopentane, 1,2-dimethyl-	3.248	6.35	NJ__
6. 16883-48-0	Cyclopentane, 1,2,4-trimeth	3.855	5.31	NJ__
7. 591-49-1	Cyclohexene, 1-methyl-	3.919	5.88	NJ__
8. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-	7.951	5.84	NJ__
9. 17057-82-8	1H-Indene, 2,3-dihydro-1,2-	9.010	5.47	NJ__

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189005 Client Smp ID: MW-168 / GW-01
Operator : PRG Sample Date: 05-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 06:18

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2532-58-3	Cyclopentane, 1,3-dimethyl-	3.250	30	NJ
2. 565-75-3	Pentane, 2,3,4-trimethyl-	3.959	150	NJ
3. 560-21-4	Pentane, 2,3,3-trimethyl-	4.039	220	NJ
4. 538-93-2	Benzene, (2-methylpropyl)-	6.778	32	NJ
5. 873-49-4	Benzene, cyclopropyl-	7.111	140	NJ
6. 934-80-5	Benzene, 4-ethyl-1,2-dimeth	7.438	150	NJ
7. 768-00-3	Benzene, (1-methyl-1-propen	7.513	46	NJ
8. 488-23-3	Benzene, 1,2,3,4-tetramethy	7.711	88	NJ
9. 874-35-1	1H-Indene, 2,3-dihydro-5-me	7.930	26	NJ
10. 2039-89-6	Benzene, 2-ethenyl-1,4-dime	8.038	96	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189006 Client Smp ID: TB-08
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 04:57

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189007 Client Smp ID: MW-172 / GW-01
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 06:33

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 106-97-8	Butane	1.031	320	NJ__
2. 106-98-9	1-Butene	1.063	84	NJ__
3. 78-78-4	Butane, 2-methyl-	1.239	250	NJ__
4. 109-66-0	Pentane	1.349	200	NJ__
5. 107-83-5	Pentane, 2-methyl-	1.807	84	NJ__
6. 2597-49-1	Cyclobutane, ethenyl-	3.211	96	NJ__
7. 611-14-3	Benzene, 1-ethyl-2-methyl-	6.567	92	NJ__
8. 526-73-8	Benzene, 1,2,3-trimethyl-	6.973	78	NJ__
9. 873-49-4	Benzene, cyclopropyl-	7.112	72	NJ__
10. 768-49-0	Benzene, (2-methyl-1-propen	7.511	70	NJ__

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189008 Client Smp ID: FIELD BLANK-03
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 05:45

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189009 Client Smp ID: TB-09
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 05:13

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189011 Client Smp ID: MW-148 / GW-01 MS/M
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 06:50

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189012 Client Smp ID: TB-10
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 07:06

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189013 Client Smp ID: MW-145 / GW-01
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 14:55

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189014 Client Smp ID: DUP-02
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 15:11

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189015 Client Smp ID: TB-11
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 11:26

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189016 Client Smp ID: MW-146 / GW-01
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 15:27

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189017 Client Smp ID: MW-147 / GW-02
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 15:43

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_07-NOV-2014 08:30 Client SDG: 6018218
Lab Smp Id: 60182189018 Client Smp ID: TB-12
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:07-NOV-2014 08:30
Analysis Type: VOA Level: LOW
Inj Date: 11-NOV-2014 11:43

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1476647
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 11-NOV-2014 10:54

Client SDG: 111114a.b

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1476321
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 11-NOV-2014 04:24

Client SDG: 60MSV1-111014b
Client Smp ID: MB
Sample Date:
Sample Point:
Date Received:10-NOV-2014 13:32
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.
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December 09, 2014

Trevor Gustafson
Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114

RE: Project: KDHE NEODESHA
Pace Project No.: 60182249

Dear Trevor Gustafson:
Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: TREVOR GUSTAFSON, BURNS & MCDONNELL

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CERTIFICATIONS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: KDHE NEODESHA
Pace Project No.: 60182249

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60182249001	**MW-144/GW-01**	Water	11/07/14 08:25	11/08/14 08:10
60182249002	**MW-163/GW-01**	Water	11/07/14 09:25	11/08/14 08:10
60182249003	**TB-14**	Water	11/07/14 08:25	11/08/14 08:10
60182249004	**MW-164/GW-01**	Water	11/07/14 11:14	11/08/14 08:10
60182249005	**MW-161/GW-01**	Water	11/07/14 12:35	11/08/14 08:10
60182249006	**DUP-03**	Water	11/07/14 00:00	11/08/14 08:10
60182249007	**TB-15**	Water	11/07/14 08:25	11/08/14 08:10
60182249008	**MW-173/GW-01**	Water	11/07/14 14:00	11/08/14 08:10
60182249009	**MW-160/GW-01**	Water	11/07/14 15:17	11/08/14 08:10
60182249010	**TB-16**	Water	11/07/14 08:25	11/08/14 08:10
60182249011	**MW-165/GW-01**	Water	11/06/14 17:28	11/08/14 08:10
60182249012	**MW-167/GW-01**	Water	11/06/14 18:54	11/08/14 08:10
60182249013	**TB-13**	Water	11/06/14 08:25	11/08/14 08:10

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60182249

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60182249001	**MW-144/GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	NDJ	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182249002	**MW-163/GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	NDJ	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182249003	**TB-14**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
60182249004	**MW-164/GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	NDJ	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	EAK	5
		SM 4500-H+B	ESM	1
60182249005	**MW-161/GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	NDJ	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60182249

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182249006	**DUP-03**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	NDJ	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182249007	**TB-15**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
60182249008	**MW-173/GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	NDJ	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182249009	**MW-160/GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	NDJ	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1

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SAMPLE ANALYTE COUNT

Project: KDHE NEODESHA
Pace Project No.: 60182249

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60182249010	**TB-16**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
60182249011	**MW-165/GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	NDJ	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182249012	**MW-167/GW-01**	OA2	JDE	9
		EPA 6010	TDS	7
		EPA 6010	NDJ	7
		EPA 7470	ZBM	1
		EPA 7470	ZBM	1
		EPA 8270	JMT	21
		EPA 8270C by SIM	NAW	20
		EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2
		SM 4500-H+B	ESM	1
60182249013	**TB-13**	EPA 5030B/8260	PRG	51
		EPA 8260/OA1	PRG	2

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Date: December 09, 2014

A library scan was performed for the volatiles method EPA 8260 and the Tentatively Identified Compound reports are included per each sample. The compound Isopropanol was not identified in the search.
.

Four samples for OA2 analyses required re-extraction. The associated method blank for the initial extraction has target analyte presence above the reporting limit. The following samples are re-extracted outside of method hold time and duplicate results are reported:

MW-144/GW-01

MW-165/GW-01

MW-167/GW-01

MW-173/GW-01
.

The initial method blank extracted for EPA 8270 SIM contains a presence of Anthracene and Fluoranthene above the reporting limit. The following samples are extracted outside of the method hold time and reported only for Anthracene and/or Fluoranthene:

DUP-03 (60182249006)

MW-144/GW-01 (60182249001)

MW-160/GW-01 (60182249009)

MW-161/GW-01 (60182249005)

MW-164/GW-01 (60182249004)

MW-165/GW-01 (60182249011)

MW-173/GW-01 (60182249008)
.

Amended report revised 12/9/14 to include the associated method blank and laboratory control sample for analytical batch 15176 for PAHs EPA 8270 SIM, which was omitted from the initial report.

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: December 09, 2014

General Information:
9 samples were analyzed for OA2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H2: Extraction or preparation conducted outside EPA method holding time.
- MW-144/GW-01 (Lab ID: 60182249001)
- MW-165/GW-01 (Lab ID: 60182249011)
- MW-167/GW-01 (Lab ID: 60182249012)
- MW-173/GW-01 (Lab ID: 60182249008)

Sample Preparation:
The samples were prepared in accordance with OA2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: OEXT/47082

B: Analyte was detected in the associated method blank.
- BLANK for HBN 363283 [OEXT/470 (Lab ID: 1477170)
  - TEH as Diesel No.2

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/47082

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: OEXT/47189

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **OA2**
Description: OA2 GCS
Client: Burns and McDonnell_BP
Date: December 09, 2014

Analyte Comments:

QC Batch: OEXT/47189

1e: The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to early motor oil range. Quantitation achieved using diesel fuel as a reference standard.

- MW-165/GW-01 (Lab ID: 60182249011)
  - TEH as Diesel No.2
- MW-167/GW-01 (Lab ID: 60182249012)
  - TEH as Diesel No.2
- MW-173/GW-01 (Lab ID: 60182249008)
  - TEH as Diesel No.2

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **EPA 6010**
Description: 6010 MET ICP
Client: Burns and McDonnell_BP
Date: December 09, 2014

General Information:
9 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: Burns and McDonnell_BP
Date: December 09, 2014

General Information:
9 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **EPA 7470**
Description: 7470 Mercury
Client: Burns and McDonnell_BP
Date: December 09, 2014

General Information:
9 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/9047

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60182249005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1477930)
  - Mercury

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: Burns and McDonnell_BP
Date: December 09, 2014

General Information:
9 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/9049

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60182249001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1477955)
  - Mercury, Dissolved
- MSD (Lab ID: 1477956)
  - Mercury, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Burns and McDonnell_BP
Date: December 09, 2014

General Information:
9 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/47096

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: Burns and McDonnell_BP
Date: December 09, 2014

General Information:
9 samples were analyzed for EPA 8270C by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H2: Extraction or preparation conducted outside EPA method holding time.
- DUP-03 (Lab ID: 60182249006)
- MW-144/GW-01 (Lab ID: 60182249001)
- MW-160/GW-01 (Lab ID: 60182249009)
- MW-161/GW-01 (Lab ID: 60182249005)
- MW-164/GW-01 (Lab ID: 60182249004)
- MW-165/GW-01 (Lab ID: 60182249011)
- MW-173/GW-01 (Lab ID: 60182249008)

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/47086

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: OEXT/47117

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **EPA 8270C by SIM**
Description: 8270 MSSV PAH by SIM
Client: Burns and McDonnell_BP
Date: December 09, 2014

QC Batch: OEXT/47186

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Burns and McDonnell_BP
Date: December 09, 2014

General Information:
13 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65713

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **EPA 8260/OA1**
Description: 8260/OA1 UST, Water
Client: Burns and McDonnell_BP
Date: December 09, 2014

General Information:
13 samples were analyzed for EPA 8260/OA1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/65722

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Burns and McDonnell_BP
Date: December 09, 2014

General Information:
9 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- DUP-03 (Lab ID: 60182249006)
- MW-144/GW-01 (Lab ID: 60182249001)
- MW-160/GW-01 (Lab ID: 60182249009)
- MW-161/GW-01 (Lab ID: 60182249005)
- MW-163/GW-01 (Lab ID: 60182249002)
- MW-164/GW-01 (Lab ID: 60182249004)
- MW-165/GW-01 (Lab ID: 60182249011)
- MW-167/GW-01 (Lab ID: 60182249012)
- MW-173/GW-01 (Lab ID: 60182249008)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-144/GW-01 **Lab ID: 60182249001** Collected: 11/07/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:19	68334-30-5	
Diesel Fuel	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:24	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:19	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:24	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:19	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:24	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:19	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:24	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:19	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:24	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:19	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:24	64742-65-0	H2
TEH as Diesel No.2	**0.71**	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:19		B
TEH as Diesel No.2	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:24		H2
Surrogates								
p-Terphenyl (S)	79	%	29-122	1	11/19/14 00:00	11/20/14 13:24	92-94-4	
p-Terphenyl (S)	89	%	29-122	1	11/12/14 00:00	11/14/14 00:19	92-94-4	
n-Tetracosane (S)	79	%	20-120	1	11/12/14 00:00	11/14/14 00:19	646-31-1	
n-Tetracosane (S)	72	%	20-120	1	11/19/14 00:00	11/20/14 13:24	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:52	7440-38-2	
Barium	**75.1**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:52	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:52	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:52	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:52	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:52	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:52	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:04	7440-38-2	
Barium, Dissolved	**66.4**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:04	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/14/14 11:30	11/18/14 10:04	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:04	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:04	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/14/14 11:30	11/18/14 10:04	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/14/14 11:30	11/18/14 10:04	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 10:56	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 12:16	7439-97-6	M1
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-144/GW-01 **Lab ID: 60182249001** Collected: 11/07/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	106-46-7	
Diethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 00:24	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24		
4-Nitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 00:24	100-02-7	
Phenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	108-95-2	
Pyridine	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	110-86-1	
Quinoline	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:24	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	71	%	10-135	1	11/13/14 00:00	11/15/14 00:24	4165-60-0	
2-Fluorobiphenyl (S)	73	%	19-124	1	11/13/14 00:00	11/15/14 00:24	321-60-8	
Terphenyl-d14 (S)	94	%	24-131	1	11/13/14 00:00	11/15/14 00:24	1718-51-0	
Phenol-d6 (S)	27	%	10-120	1	11/13/14 00:00	11/15/14 00:24	13127-88-3	
2-Fluorophenol (S)	40	%	13-120	1	11/13/14 00:00	11/15/14 00:24	367-12-4	
2,4,6-Tribromophenol (S)	88	%	29-121	1	11/13/14 00:00	11/15/14 00:24	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	208-96-8	
Anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	53-70-3	
Fluoranthene	**0.12**	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	206-44-0	B
Fluoranthene	ND	ug/L	0.10	1	11/19/14 00:00	11/19/14 22:00	206-44-0	H2
Fluorene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.50	1	11/12/14 00:00	11/14/14 15:27	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.50	1	11/12/14 00:00	11/14/14 15:27	91-57-6	
Naphthalene	ND	ug/L	0.50	1	11/12/14 00:00	11/14/14 15:27	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/12/14 00:00	11/14/14 15:27	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 15:27	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	74	%	36-120	1	11/12/14 00:00	11/14/14 15:27	321-60-8	
2-Fluorobiphenyl (S)	83	%	36-120	1	11/19/14 00:00	11/19/14 22:00	321-60-8	
Terphenyl-d14 (S)	78	%	29-134	1	11/12/14 00:00	11/14/14 15:27	1718-51-0	
Terphenyl-d14 (S)	96	%	29-134	1	11/19/14 00:00	11/19/14 22:00	1718-51-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-144/GW-01 **Lab ID: 60182249001** Collected: 11/07/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/13/14 03:43	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/13/14 03:43	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/13/14 03:43	994-05-8	
Benzene	ND	ug/L	1.0	1		11/13/14 03:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/13/14 03:43	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/13/14 03:43	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/13/14 03:43	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/13/14 03:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/13/14 03:43	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/13/14 03:43	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/13/14 03:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/13/14 03:43	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/13/14 03:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/13/14 03:43	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/13/14 03:43	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/13/14 03:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/13/14 03:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/13/14 03:43	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/13/14 03:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/13/14 03:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/13/14 03:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/13/14 03:43	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/13/14 03:43	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/13/14 03:43	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/13/14 03:43	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/13/14 03:43	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/13/14 03:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 03:43	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/13/14 03:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/13/14 03:43	98-82-8	
p-Isopropyltoluene	**1.8**	ug/L	1.0	1		11/13/14 03:43	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/13/14 03:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/13/14 03:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 03:43	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/13/14 03:43	103-65-1	
Styrene	ND	ug/L	1.0	1		11/13/14 03:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/13/14 03:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/13/14 03:43	127-18-4	
Toluene	ND	ug/L	1.0	1		11/13/14 03:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/13/14 03:43	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/13/14 03:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/13/14 03:43	75-69-4	
1,2,4-Trimethylbenzene	**19.6**	ug/L	1.0	1		11/13/14 03:43	95-63-6	
1,3,5-Trimethylbenzene	**5.3**	ug/L	1.0	1		11/13/14 03:43	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/13/14 03:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/13/14 03:43	75-01-4	
Xylene (Total)	**12.4**	ug/L	3.0	1		11/13/14 03:43	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-144/GW-01 **Lab ID: 60182249001** Collected: 11/07/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		11/13/14 03:43	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/13/14 03:43	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/13/14 03:43	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/13/14 03:43		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/13/14 03:43		
Preservation pH	**1.0**		0.10	1		11/13/14 03:43		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		11/11/14 10:30		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-163/GW-01 **Lab ID: 60182249002** Collected: 11/07/14 09:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:27	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:27	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:27	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:27	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:27	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:27	64742-65-0	
TEH as Diesel No.2	**4.3**	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:27		
Surrogates								
p-Terphenyl (S)	87	%	29-122	1	11/12/14 00:00	11/14/14 00:27	92-94-4	
n-Tetracosane (S)	65	%	20-120	1	11/12/14 00:00	11/14/14 00:27	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**19.7**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:54	7440-38-2	
Barium	**2000**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:54	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:54	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:54	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:54	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:54	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:54	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**25.7**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:17	7440-38-2	D9
Barium, Dissolved	**2040**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:17	7440-39-3	D9
Cadmium, Dissolved	ND	ug/L	1.0	1	11/14/14 11:30	11/18/14 10:17	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:17	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:17	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/14/14 11:30	11/18/14 10:17	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/14/14 11:30	11/18/14 10:17	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 10:58	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 12:23	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	106-46-7	
Diethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 00:45	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-163/GW-01 **Lab ID: 60182249002** Collected: 11/07/14 09:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45		
4-Nitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 00:45	100-02-7	
Phenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	108-95-2	
Pyridine	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	110-86-1	
Quinoline	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 00:45	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	82	%	10-135	1	11/13/14 00:00	11/15/14 00:45	4165-60-0	
2-Fluorobiphenyl (S)	82	%	19-124	1	11/13/14 00:00	11/15/14 00:45	321-60-8	
Terphenyl-d14 (S)	94	%	24-131	1	11/13/14 00:00	11/15/14 00:45	1718-51-0	
Phenol-d6 (S)	32	%	10-120	1	11/13/14 00:00	11/15/14 00:45	13127-88-3	
2-Fluorophenol (S)	47	%	13-120	1	11/13/14 00:00	11/15/14 00:45	367-12-4	
2,4,6-Tribromophenol (S)	92	%	29-121	1	11/13/14 00:00	11/15/14 00:45	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**2.0**	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	83-32-9	
Acenaphthylene	**1.1**	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	208-96-8	
Anthracene	**1.1**	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	53-70-3	
Fluoranthene	**0.18**	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	206-44-0	
Fluorene	**2.8**	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	193-39-5	
1-Methylnaphthalene	**52.4**	ug/L	5.0	10	11/13/14 00:00	11/14/14 17:50	90-12-0	
2-Methylnaphthalene	**71.9**	ug/L	5.0	10	11/13/14 00:00	11/14/14 17:50	91-57-6	
Naphthalene	**55.1**	ug/L	5.0	10	11/13/14 00:00	11/14/14 17:50	91-20-3	
Phenanthrene	**3.9**	ug/L	0.50	1	11/13/14 00:00	11/14/14 10:58	85-01-8	
Pyrene	**0.57**	ug/L	0.10	1	11/13/14 00:00	11/14/14 10:58	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	88	%	36-120	1	11/13/14 00:00	11/14/14 10:58	321-60-8	
Terphenyl-d14 (S)	93	%	29-134	1	11/13/14 00:00	11/14/14 10:58	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	500	50		11/13/14 05:53	67-64-1	
Acrylonitrile	ND	ug/L	1000	50		11/13/14 05:53	107-13-1	
tert-Amylmethyl ether	ND	ug/L	50.0	50		11/13/14 05:53	994-05-8	
Benzene	**152**	ug/L	50.0	50		11/13/14 05:53	71-43-2	
Bromodichloromethane	ND	ug/L	50.0	50		11/13/14 05:53	75-27-4	
2-Butanone (MEK)	ND	ug/L	500	50		11/13/14 05:53	78-93-3	
tert-Butyl Alcohol	**685**	ug/L	500	50		11/13/14 05:53	75-65-0	
n-Butylbenzene	ND	ug/L	50.0	50		11/13/14 05:53	104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	50		11/13/14 05:53	135-98-8	
Carbon disulfide	ND	ug/L	250	50		11/13/14 05:53	75-15-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-163/GW-01 **Lab ID: 60182249002** Collected: 11/07/14 09:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chlorobenzene	ND	ug/L	50.0	50		11/13/14 05:53	108-90-7	
Chloroethane	ND	ug/L	50.0	50		11/13/14 05:53	75-00-3	
Chloroform	ND	ug/L	50.0	50		11/13/14 05:53	67-66-3	
Chloromethane	ND	ug/L	50.0	50		11/13/14 05:53	74-87-3	
4-Chlorotoluene	ND	ug/L	50.0	50		11/13/14 05:53	106-43-4	
Dibromochloromethane	ND	ug/L	50.0	50		11/13/14 05:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		11/13/14 05:53	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		11/13/14 05:53	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	250	50		11/13/14 05:53	110-57-6	
1,1-Dichloroethane	ND	ug/L	50.0	50		11/13/14 05:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		11/13/14 05:53	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	50.0	50		11/13/14 05:53	540-59-0	
1,1-Dichloroethene	ND	ug/L	50.0	50		11/13/14 05:53	75-35-4	
1,2-Dichloropropane	ND	ug/L	50.0	50		11/13/14 05:53	78-87-5	
Diisopropyl ether	ND	ug/L	50.0	50		11/13/14 05:53	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	5000	50		11/13/14 05:53	123-91-1	
Ethylbenzene	ND	ug/L	50.0	50		11/13/14 05:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	50		11/13/14 05:53	637-92-3	
2-Hexanone	ND	ug/L	500	50		11/13/14 05:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	50.0	50		11/13/14 05:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		11/13/14 05:53	99-87-6	
Methylene chloride	**2660**	ug/L	50.0	50		11/13/14 05:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	50		11/13/14 05:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		11/13/14 05:53	1634-04-4	
n-Propylbenzene	**58.1**	ug/L	50.0	50		11/13/14 05:53	103-65-1	
Styrene	ND	ug/L	50.0	50		11/13/14 05:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		11/13/14 05:53	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	50		11/13/14 05:53	127-18-4	
Toluene	ND	ug/L	50.0	50		11/13/14 05:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		11/13/14 05:53	71-55-6	
Trichloroethene	ND	ug/L	50.0	50		11/13/14 05:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		11/13/14 05:53	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	50.0	50		11/13/14 05:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	50.0	50		11/13/14 05:53	108-67-8	
Vinyl acetate	ND	ug/L	500	50		11/13/14 05:53	108-05-4	
Vinyl chloride	ND	ug/L	50.0	50		11/13/14 05:53	75-01-4	
Xylene (Total)	ND	ug/L	150	50		11/13/14 05:53	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	50		11/13/14 05:53	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	50		11/13/14 05:53	17060-07-0	
Toluene-d8 (S)	99	%	80-120	50		11/13/14 05:53	2037-26-5	
Preservation pH	**1.0**		0.10	50		11/13/14 05:53		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	25.0	50		11/13/14 05:53		
Preservation pH	**1.0**		0.10	50		11/13/14 05:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-163/GW-01 **Lab ID: 60182249002** Collected: 11/07/14 09:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.3**	Std. Units	0.10	1		11/11/14 10:30		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: TB-14 **Lab ID: 60182249003** Collected: 11/07/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/13/14 00:46	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/13/14 00:46	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/13/14 00:46	994-05-8	
Benzene	ND	ug/L	1.0	1		11/13/14 00:46	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/13/14 00:46	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/13/14 00:46	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/13/14 00:46	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/13/14 00:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/13/14 00:46	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/13/14 00:46	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/13/14 00:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/13/14 00:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/13/14 00:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/13/14 00:46	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/13/14 00:46	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/13/14 00:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/13/14 00:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/13/14 00:46	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/13/14 00:46	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/13/14 00:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/13/14 00:46	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/13/14 00:46	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/13/14 00:46	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/13/14 00:46	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/13/14 00:46	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/13/14 00:46	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/13/14 00:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 00:46	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/13/14 00:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/13/14 00:46	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/13/14 00:46	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/13/14 00:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/13/14 00:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 00:46	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/13/14 00:46	103-65-1	
Styrene	ND	ug/L	1.0	1		11/13/14 00:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/13/14 00:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/13/14 00:46	127-18-4	
Toluene	ND	ug/L	1.0	1		11/13/14 00:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/13/14 00:46	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/13/14 00:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/13/14 00:46	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 00:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 00:46	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/13/14 00:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/13/14 00:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/13/14 00:46	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: TB-14 **Lab ID: 60182249003** Collected: 11/07/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		11/13/14 00:46	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		11/13/14 00:46	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/13/14 00:46	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/13/14 00:46		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/13/14 00:46		
Preservation pH	**1.0**		0.10	1		11/13/14 00:46		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-164/GW-01 **Lab ID: 60182249004** Collected: 11/07/14 11:14 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:35	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:35	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:35	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:35	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:35	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:35	64742-65-0	
TEH as Diesel No.2	**5.0**	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:35		
Surrogates								
p-Terphenyl (S)	89	%	29-122	1	11/12/14 00:00	11/14/14 00:35	92-94-4	
n-Tetracosane (S)	68	%	20-120	1	11/12/14 00:00	11/14/14 00:35	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**71.2**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:56	7440-38-2	
Barium	**1020**	ug/L	10.0	1	11/14/14 11:30	11/15/14 14:56	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:56	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:56	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 14:56	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 14:56	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 14:56	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**70.5**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:20	7440-38-2	
Barium, Dissolved	**1010**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:20	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/14/14 11:30	11/18/14 10:20	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:20	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:20	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/14/14 11:30	11/18/14 10:20	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/14/14 11:30	11/18/14 10:20	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 11:01	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 12:25	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	106-46-7	
Diethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 01:05	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-164/GW-01 **Lab ID: 60182249004** Collected: 11/07/14 11:14 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05		
4-Nitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 01:05	100-02-7	
Phenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	108-95-2	
Pyridine	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	110-86-1	
Quinoline	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:05	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	84	%	10-135	1	11/13/14 00:00	11/15/14 01:05	4165-60-0	
2-Fluorobiphenyl (S)	84	%	19-124	1	11/13/14 00:00	11/15/14 01:05	321-60-8	
Terphenyl-d14 (S)	101	%	24-131	1	11/13/14 00:00	11/15/14 01:05	1718-51-0	
Phenol-d6 (S)	33	%	10-120	1	11/13/14 00:00	11/15/14 01:05	13127-88-3	
2-Fluorophenol (S)	47	%	13-120	1	11/13/14 00:00	11/15/14 01:05	367-12-4	
2,4,6-Tribromophenol (S)	98	%	29-121	1	11/13/14 00:00	11/15/14 01:05	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**3.0**	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	83-32-9	
Acenaphthylene	**0.77**	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	208-96-8	
Anthracene	**1.4**	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	120-12-7	B
Anthracene	**1.3**	ug/L	0.10	1	11/19/14 00:00	11/19/14 22:20	120-12-7	H2
Benzo(a)anthracene	ND	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	207-08-9	
Chrysene	**0.093**	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	53-70-3	
Fluoranthene	**0.20**	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	206-44-0	B
Fluoranthene	**0.21**	ug/L	0.10	1	11/19/14 00:00	11/19/14 22:20	206-44-0	H2
Fluorene	**3.8**	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	193-39-5	
1-Methylnaphthalene	**108**	ug/L	4.5	10	11/12/14 00:00	11/18/14 13:53	90-12-0	
2-Methylnaphthalene	**117**	ug/L	4.5	10	11/12/14 00:00	11/18/14 13:53	91-57-6	
Naphthalene	**24.2**	ug/L	4.5	10	11/12/14 00:00	11/18/14 13:53	91-20-3	
Phenanthrene	**9.8**	ug/L	0.45	1	11/12/14 00:00	11/14/14 15:47	85-01-8	
Pyrene	**0.48**	ug/L	0.091	1	11/12/14 00:00	11/14/14 15:47	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	55	%	36-120	1	11/12/14 00:00	11/14/14 15:47	321-60-8	
2-Fluorobiphenyl (S)	81	%	36-120	1	11/19/14 00:00	11/19/14 22:20	321-60-8	
Terphenyl-d14 (S)	75	%	29-134	1	11/19/14 00:00	11/19/14 22:20	1718-51-0	
Terphenyl-d14 (S)	73	%	29-134	1	11/12/14 00:00	11/14/14 15:47	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	50.0	5		11/18/14 15:08	67-64-1	
Benzene	**344**	ug/L	5.0	5		11/18/14 15:08	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	5		11/18/14 15:08	75-27-4	
2-Butanone (MEK)	ND	ug/L	50.0	5		11/18/14 15:08	78-93-3	
n-Butylbenzene	**8.6**	ug/L	5.0	5		11/18/14 15:08	104-51-8	
sec-Butylbenzene	**7.3**	ug/L	5.0	5		11/18/14 15:08	135-98-8	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-164/GW-01 **Lab ID: 60182249004** Collected: 11/07/14 11:14 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Butyl Alcohol	**596**	ug/L	50.0	5		11/18/14 15:08	75-65-0	
Carbon disulfide	ND	ug/L	25.0	5		11/18/14 15:08	75-15-0	
Chlorobenzene	ND	ug/L	5.0	5		11/18/14 15:08	108-90-7	
Chloroethane	ND	ug/L	5.0	5		11/18/14 15:08	75-00-3	
Chloroform	ND	ug/L	5.0	5		11/18/14 15:08	67-66-3	
Chloromethane	ND	ug/L	5.0	5		11/18/14 15:08	74-87-3	
4-Chlorotoluene	ND	ug/L	5.0	5		11/18/14 15:08	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	5		11/18/14 15:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		11/18/14 15:08	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		11/18/14 15:08	74-95-3	
1,1-Dichloroethane	ND	ug/L	5.0	5		11/18/14 15:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		11/18/14 15:08	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	5		11/18/14 15:08	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	5		11/18/14 15:08	75-35-4	
1,2-Dichloropropane	ND	ug/L	5.0	5		11/18/14 15:08	78-87-5	
Ethylbenzene	**6.0**	ug/L	5.0	5		11/18/14 15:08	100-41-4	
2-Hexanone	ND	ug/L	50.0	5		11/18/14 15:08	591-78-6	
Isopropylbenzene (Cumene)	**33.1**	ug/L	5.0	5		11/18/14 15:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	5		11/18/14 15:08	99-87-6	
Methylene chloride	**6.2**	ug/L	5.0	5		11/18/14 15:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		11/18/14 15:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		11/18/14 15:08	1634-04-4	
n-Propylbenzene	**35.4**	ug/L	5.0	5		11/18/14 15:08	103-65-1	
Styrene	ND	ug/L	5.0	5		11/18/14 15:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		11/18/14 15:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		11/18/14 15:08	127-18-4	
Toluene	**7.6**	ug/L	5.0	5		11/18/14 15:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		11/18/14 15:08	71-55-6	
Trichloroethene	ND	ug/L	5.0	5		11/18/14 15:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		11/18/14 15:08	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	5		11/18/14 15:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	5		11/18/14 15:08	108-67-8	
Vinyl chloride	ND	ug/L	5.0	5		11/18/14 15:08	75-01-4	
Xylene (Total)	ND	ug/L	15.0	5		11/18/14 15:08	1330-20-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	500	5		11/18/14 15:08	123-91-1	
Vinyl acetate	ND	ug/L	50.0	5		11/18/14 15:08	108-05-4	
Acrylonitrile	ND	ug/L	100	5		11/18/14 15:08	107-13-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	25.0	5		11/18/14 15:08	110-57-6	
tert-Amylmethyl ether	ND	ug/L	5.0	5		11/18/14 15:08	994-05-8	
Diisopropyl ether	ND	ug/L	5.0	5		11/18/14 15:08	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	5.0	5		11/18/14 15:08	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	5		11/18/14 15:08	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	5		11/18/14 15:08	17060-07-0	
Toluene-d8 (S)	100	%	80-120	5		11/18/14 15:08	2037-26-5	
Preservation pH	**1.0**		0.10	5		11/18/14 15:08		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-164/GW-01 **Lab ID: 60182249004** Collected: 11/07/14 11:14 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**3.3**	mg/L	2.5	5		11/17/14 18:02		
Surrogates								
Toluene-d8 (S)	101	%	80-120	5		11/17/14 18:02	2037-26-5	
4-Bromofluorobenzene (S)	103	%	80-120	5		11/17/14 18:02	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120	5		11/17/14 18:02	17060-07-0	
Preservation pH	**1.0**		0.10	5		11/17/14 18:02		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		11/11/14 10:30		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-161/GW-01 **Lab ID: 60182249005** Collected: 11/07/14 12:35 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:43	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:43	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:43	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:43	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:43	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:43	64742-65-0	
TEH as Diesel No.2	**7.8**	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:43		
Surrogates								
p-Terphenyl (S)	103	%	29-122	1	11/12/14 00:00	11/14/14 00:43	92-94-4	
n-Tetracosane (S)	91	%	20-120	1	11/12/14 00:00	11/14/14 00:43	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**36.1**	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:03	7440-38-2	
Barium	**673**	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:03	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:03	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:03	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:03	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 15:03	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 15:03	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**42.5**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:22	7440-38-2	D9
Barium, Dissolved	**688**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:22	7440-39-3	D9
Cadmium, Dissolved	ND	ug/L	1.0	1	11/14/14 11:30	11/18/14 10:22	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:22	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:22	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/14/14 11:30	11/18/14 10:22	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/14/14 11:30	11/18/14 10:22	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 11:03	7439-97-6	M1
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 12:27	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	106-46-7	
Diethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 01:26	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-161/GW-01 **Lab ID: 60182249005** Collected: 11/07/14 12:35 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26		
4-Nitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 01:26	100-02-7	
Phenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	108-95-2	
Pyridine	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	110-86-1	
Quinoline	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:26	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	79	%	10-135	1	11/13/14 00:00	11/15/14 01:26	4165-60-0	
2-Fluorobiphenyl (S)	78	%	19-124	1	11/13/14 00:00	11/15/14 01:26	321-60-8	
Terphenyl-d14 (S)	99	%	24-131	1	11/13/14 00:00	11/15/14 01:26	1718-51-0	
Phenol-d6 (S)	30	%	10-120	1	11/13/14 00:00	11/15/14 01:26	13127-88-3	
2-Fluorophenol (S)	44	%	13-120	1	11/13/14 00:00	11/15/14 01:26	367-12-4	
2,4,6-Tribromophenol (S)	90	%	29-121	1	11/13/14 00:00	11/15/14 01:26	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**3.6**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	83-32-9	
Acenaphthylene	**0.81**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	208-96-8	
Anthracene	**1.3**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	120-12-7	B
Anthracene	**1.1**	ug/L	0.10	1	11/19/14 00:00	11/19/14 23:01	120-12-7	H2
Benzo(a)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	53-70-3	
Fluoranthene	**0.15**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	206-44-0	B
Fluoranthene	**0.13**	ug/L	0.10	1	11/19/14 00:00	11/19/14 23:01	206-44-0	H2
Fluorene	**5.4**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	193-39-5	
1-Methylnaphthalene	**123**	ug/L	13.0	25	11/12/14 00:00	11/18/14 14:14	90-12-0	
2-Methylnaphthalene	**195**	ug/L	13.0	25	11/12/14 00:00	11/18/14 14:14	91-57-6	
Naphthalene	**241**	ug/L	13.0	25	11/12/14 00:00	11/18/14 14:14	91-20-3	
Phenanthrene	**8.2**	ug/L	0.52	1	11/12/14 00:00	11/14/14 16:08	85-01-8	
Pyrene	**0.45**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:08	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	80	%	36-120	1	11/19/14 00:00	11/19/14 23:01	321-60-8	
2-Fluorobiphenyl (S)	85	%	36-120	1	11/12/14 00:00	11/14/14 16:08	321-60-8	
Terphenyl-d14 (S)	76	%	29-134	1	11/19/14 00:00	11/19/14 23:01	1718-51-0	
Terphenyl-d14 (S)	80	%	29-134	1	11/12/14 00:00	11/14/14 16:08	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	200	20		11/13/14 05:20	67-64-1	
Acrylonitrile	ND	ug/L	400	20		11/13/14 05:20	107-13-1	
tert-Amylmethyl ether	ND	ug/L	20.0	20		11/13/14 05:20	994-05-8	
Benzene	**1660**	ug/L	20.0	20		11/13/14 05:20	71-43-2	
Bromodichloromethane	ND	ug/L	20.0	20		11/13/14 05:20	75-27-4	
2-Butanone (MEK)	ND	ug/L	200	20		11/13/14 05:20	78-93-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-161/GW-01 **Lab ID: 60182249005** Collected: 11/07/14 12:35 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Butyl Alcohol	ND	ug/L	200	20		11/13/14 05:20	75-65-0	
n-Butylbenzene	ND	ug/L	20.0	20		11/13/14 05:20	104-51-8	
sec-Butylbenzene	ND	ug/L	20.0	20		11/13/14 05:20	135-98-8	
Carbon disulfide	ND	ug/L	100	20		11/13/14 05:20	75-15-0	
Chlorobenzene	ND	ug/L	20.0	20		11/13/14 05:20	108-90-7	
Chloroethane	ND	ug/L	20.0	20		11/13/14 05:20	75-00-3	
Chloroform	ND	ug/L	20.0	20		11/13/14 05:20	67-66-3	
Chloromethane	ND	ug/L	20.0	20		11/13/14 05:20	74-87-3	
4-Chlorotoluene	ND	ug/L	20.0	20		11/13/14 05:20	106-43-4	
Dibromochloromethane	ND	ug/L	20.0	20		11/13/14 05:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	20.0	20		11/13/14 05:20	106-93-4	
Dibromomethane	ND	ug/L	20.0	20		11/13/14 05:20	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	20		11/13/14 05:20	110-57-6	
1,1-Dichloroethane	ND	ug/L	20.0	20		11/13/14 05:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		11/13/14 05:20	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	20.0	20		11/13/14 05:20	540-59-0	
1,1-Dichloroethene	ND	ug/L	20.0	20		11/13/14 05:20	75-35-4	
1,2-Dichloropropane	ND	ug/L	20.0	20		11/13/14 05:20	78-87-5	
Diisopropyl ether	ND	ug/L	20.0	20		11/13/14 05:20	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	2000	20		11/13/14 05:20	123-91-1	
Ethylbenzene	**287**	ug/L	20.0	20		11/13/14 05:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	20		11/13/14 05:20	637-92-3	
2-Hexanone	ND	ug/L	200	20		11/13/14 05:20	591-78-6	
Isopropylbenzene (Cumene)	**47.4**	ug/L	20.0	20		11/13/14 05:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	20.0	20		11/13/14 05:20	99-87-6	
Methylene chloride	**85.8**	ug/L	20.0	20		11/13/14 05:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	20		11/13/14 05:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	20		11/13/14 05:20	1634-04-4	
n-Propylbenzene	**58.5**	ug/L	20.0	20		11/13/14 05:20	103-65-1	
Styrene	ND	ug/L	20.0	20		11/13/14 05:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		11/13/14 05:20	79-34-5	
Tetrachloroethene	ND	ug/L	20.0	20		11/13/14 05:20	127-18-4	
Toluene	**23.6**	ug/L	20.0	20		11/13/14 05:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	20.0	20		11/13/14 05:20	71-55-6	
Trichloroethene	ND	ug/L	20.0	20		11/13/14 05:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	20		11/13/14 05:20	75-69-4	
1,2,4-Trimethylbenzene	**139**	ug/L	20.0	20		11/13/14 05:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	20.0	20		11/13/14 05:20	108-67-8	
Vinyl acetate	ND	ug/L	200	20		11/13/14 05:20	108-05-4	
Vinyl chloride	ND	ug/L	20.0	20		11/13/14 05:20	75-01-4	
Xylene (Total)	**134**	ug/L	60.0	20		11/13/14 05:20	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	20		11/13/14 05:20	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	20		11/13/14 05:20	17060-07-0	
Toluene-d8 (S)	101	%	80-120	20		11/13/14 05:20	2037-26-5	
Preservation pH	**1.0**		0.10	20		11/13/14 05:20		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-161/GW-01 **Lab ID: 60182249005** Collected: 11/07/14 12:35 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	10.0	20		11/13/14 05:20		
Preservation pH	**1.0**		0.10	20		11/13/14 05:20		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		11/11/14 10:30		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: DUP-03 **Lab ID: 60182249006** Collected: 11/07/14 00:00 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:51	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:51	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:51	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:51	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:51	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:51	64742-65-0	
TEH as Diesel No.2	**7.6**	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:51		
Surrogates								
p-Terphenyl (S)	101	%	29-122	1	11/12/14 00:00	11/14/14 00:51	92-94-4	
n-Tetracosane (S)	85	%	20-120	1	11/12/14 00:00	11/14/14 00:51	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**38.9**	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:06	7440-38-2	
Barium	**678**	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:06	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:06	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:06	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:06	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 15:06	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 15:06	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**38.4**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:24	7440-38-2	
Barium, Dissolved	**690**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:24	7440-39-3	D9
Cadmium, Dissolved	ND	ug/L	1.0	1	11/14/14 11:30	11/18/14 10:24	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:24	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:24	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/14/14 11:30	11/18/14 10:24	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/14/14 11:30	11/18/14 10:24	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 11:07	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 12:30	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	106-46-7	
Diethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 01:46	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: DUP-03 **Lab ID: 60182249006** Collected: 11/07/14 00:00 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46		
4-Nitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 01:46	100-02-7	
Phenol	**11.4**	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	108-95-2	
Pyridine	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	110-86-1	
Quinoline	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 01:46	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	89	%	10-135	1	11/13/14 00:00	11/15/14 01:46	4165-60-0	
2-Fluorobiphenyl (S)	85	%	19-124	1	11/13/14 00:00	11/15/14 01:46	321-60-8	
Terphenyl-d14 (S)	108	%	24-131	1	11/13/14 00:00	11/15/14 01:46	1718-51-0	
Phenol-d6 (S)	34	%	10-120	1	11/13/14 00:00	11/15/14 01:46	13127-88-3	
2-Fluorophenol (S)	48	%	13-120	1	11/13/14 00:00	11/15/14 01:46	367-12-4	
2,4,6-Tribromophenol (S)	96	%	29-121	1	11/13/14 00:00	11/15/14 01:46	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**3.3**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	83-32-9	
Acenaphthylene	**0.75**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	208-96-8	
Anthracene	**1.2**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	120-12-7	B
Anthracene	**1.2**	ug/L	0.10	1	11/19/14 00:00	11/19/14 23:42	120-12-7	H2
Benzo(a)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	53-70-3	
Fluoranthene	**0.14**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	206-44-0	B
Fluoranthene	**0.15**	ug/L	0.10	1	11/19/14 00:00	11/19/14 23:42	206-44-0	H2
Fluorene	**5.1**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	193-39-5	
1-Methylnaphthalene	**109**	ug/L	12.5	25	11/12/14 00:00	11/18/14 14:34	90-12-0	
2-Methylnaphthalene	**172**	ug/L	12.5	25	11/12/14 00:00	11/18/14 14:34	91-57-6	
Naphthalene	**220**	ug/L	12.5	25	11/12/14 00:00	11/18/14 14:34	91-20-3	
Phenanthrene	**7.5**	ug/L	0.50	1	11/12/14 00:00	11/14/14 16:28	85-01-8	
Pyrene	**0.40**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:28	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	84	%	36-120	1	11/12/14 00:00	11/14/14 16:28	321-60-8	
2-Fluorobiphenyl (S)	84	%	36-120	1	11/19/14 00:00	11/19/14 23:42	321-60-8	
Terphenyl-d14 (S)	75	%	29-134	1	11/19/14 00:00	11/19/14 23:42	1718-51-0	
Terphenyl-d14 (S)	78	%	29-134	1	11/12/14 00:00	11/14/14 16:28	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	200	20		11/13/14 05:37	67-64-1	
Acrylonitrile	ND	ug/L	400	20		11/13/14 05:37	107-13-1	
tert-Amylmethyl ether	ND	ug/L	20.0	20		11/13/14 05:37	994-05-8	
Benzene	**1710**	ug/L	20.0	20		11/13/14 05:37	71-43-2	
Bromodichloromethane	ND	ug/L	20.0	20		11/13/14 05:37	75-27-4	
2-Butanone (MEK)	ND	ug/L	200	20		11/13/14 05:37	78-93-3	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: DUP-03 **Lab ID: 60182249006** Collected: 11/07/14 00:00 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
tert-Butyl Alcohol	ND	ug/L	200	20		11/13/14 05:37	75-65-0	
n-Butylbenzene	**25.6**	ug/L	20.0	20		11/13/14 05:37	104-51-8	
sec-Butylbenzene	ND	ug/L	20.0	20		11/13/14 05:37	135-98-8	
Carbon disulfide	ND	ug/L	100	20		11/13/14 05:37	75-15-0	
Chlorobenzene	ND	ug/L	20.0	20		11/13/14 05:37	108-90-7	
Chloroethane	ND	ug/L	20.0	20		11/13/14 05:37	75-00-3	
Chloroform	ND	ug/L	20.0	20		11/13/14 05:37	67-66-3	
Chloromethane	ND	ug/L	20.0	20		11/13/14 05:37	74-87-3	
4-Chlorotoluene	ND	ug/L	20.0	20		11/13/14 05:37	106-43-4	
Dibromochloromethane	ND	ug/L	20.0	20		11/13/14 05:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	20.0	20		11/13/14 05:37	106-93-4	
Dibromomethane	ND	ug/L	20.0	20		11/13/14 05:37	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	20		11/13/14 05:37	110-57-6	
1,1-Dichloroethane	ND	ug/L	20.0	20		11/13/14 05:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		11/13/14 05:37	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	20.0	20		11/13/14 05:37	540-59-0	
1,1-Dichloroethene	ND	ug/L	20.0	20		11/13/14 05:37	75-35-4	
1,2-Dichloropropane	ND	ug/L	20.0	20		11/13/14 05:37	78-87-5	
Diisopropyl ether	ND	ug/L	20.0	20		11/13/14 05:37	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	2000	20		11/13/14 05:37	123-91-1	
Ethylbenzene	**348**	ug/L	20.0	20		11/13/14 05:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	20		11/13/14 05:37	637-92-3	
2-Hexanone	ND	ug/L	200	20		11/13/14 05:37	591-78-6	
Isopropylbenzene (Cumene)	**62.5**	ug/L	20.0	20		11/13/14 05:37	98-82-8	
p-Isopropyltoluene	**20.4**	ug/L	20.0	20		11/13/14 05:37	99-87-6	
Methylene chloride	**74.1**	ug/L	20.0	20		11/13/14 05:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	200	20		11/13/14 05:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	20		11/13/14 05:37	1634-04-4	
n-Propylbenzene	**75.4**	ug/L	20.0	20		11/13/14 05:37	103-65-1	
Styrene	ND	ug/L	20.0	20		11/13/14 05:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		11/13/14 05:37	79-34-5	
Tetrachloroethene	ND	ug/L	20.0	20		11/13/14 05:37	127-18-4	
Toluene	**25.9**	ug/L	20.0	20		11/13/14 05:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	20.0	20		11/13/14 05:37	71-55-6	
Trichloroethene	ND	ug/L	20.0	20		11/13/14 05:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	20		11/13/14 05:37	75-69-4	
1,2,4-Trimethylbenzene	**156**	ug/L	20.0	20		11/13/14 05:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	20.0	20		11/13/14 05:37	108-67-8	
Vinyl acetate	ND	ug/L	200	20		11/13/14 05:37	108-05-4	
Vinyl chloride	ND	ug/L	20.0	20		11/13/14 05:37	75-01-4	
Xylene (Total)	**167**	ug/L	60.0	20		11/13/14 05:37	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	20		11/13/14 05:37	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	20		11/13/14 05:37	17060-07-0	
Toluene-d8 (S)	99	%	80-120	20		11/13/14 05:37	2037-26-5	
Preservation pH	**1.0**		0.10	20		11/13/14 05:37		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: DUP-03 **Lab ID: 60182249006** Collected: 11/07/14 00:00 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	10.0	20		11/13/14 05:37		
Preservation pH	**1.0**		0.10	20		11/13/14 05:37		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.4**	Std. Units	0.10	1		11/11/14 10:30		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: TB-15 **Lab ID: 60182249007** Collected: 11/07/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/13/14 01:02	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/13/14 01:02	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/13/14 01:02	994-05-8	
Benzene	ND	ug/L	1.0	1		11/13/14 01:02	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/13/14 01:02	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/13/14 01:02	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/13/14 01:02	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/13/14 01:02	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/13/14 01:02	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/13/14 01:02	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/13/14 01:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/13/14 01:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/13/14 01:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/13/14 01:02	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/13/14 01:02	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/13/14 01:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/13/14 01:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/13/14 01:02	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/13/14 01:02	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/13/14 01:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/13/14 01:02	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/13/14 01:02	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/13/14 01:02	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/13/14 01:02	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/13/14 01:02	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/13/14 01:02	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/13/14 01:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 01:02	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/13/14 01:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/13/14 01:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/13/14 01:02	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/13/14 01:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/13/14 01:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 01:02	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/13/14 01:02	103-65-1	
Styrene	ND	ug/L	1.0	1		11/13/14 01:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/13/14 01:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/13/14 01:02	127-18-4	
Toluene	ND	ug/L	1.0	1		11/13/14 01:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/13/14 01:02	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/13/14 01:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/13/14 01:02	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 01:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 01:02	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/13/14 01:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/13/14 01:02	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/13/14 01:02	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: TB-15 **Lab ID: 60182249007** Collected: 11/07/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		11/13/14 01:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		11/13/14 01:02	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/13/14 01:02	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/13/14 01:02		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/13/14 01:02		
Preservation pH	**1.0**		0.10	1		11/13/14 01:02		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-173/GW-01 **Lab ID: 60182249008** Collected: 11/07/14 14:00 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:58	68334-30-5	
Diesel Fuel	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:31	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:58	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:31	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:58	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:31	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:58	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:31	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:58	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:31	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:58	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:31	64742-65-0	H2
TEH as Diesel No.2	**2.3**	mg/L	0.40	1	11/12/14 00:00	11/14/14 00:58		B
TEH as Diesel No.2	**1.6**	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:31		1e,H2
Surrogates								
p-Terphenyl (S)	85	%	29-122	1	11/19/14 00:00	11/20/14 13:31	92-94-4	
p-Terphenyl (S)	80	%	29-122	1	11/12/14 00:00	11/14/14 00:58	92-94-4	
n-Tetracosane (S)	78	%	20-120	1	11/19/14 00:00	11/20/14 13:31	646-31-1	
n-Tetracosane (S)	67	%	20-120	1	11/12/14 00:00	11/14/14 00:58	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:08	7440-38-2	
Barium	**584**	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:08	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:08	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:08	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:08	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 15:08	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 15:08	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:27	7440-38-2	
Barium, Dissolved	**602**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:27	7440-39-3	D9
Cadmium, Dissolved	ND	ug/L	1.0	1	11/14/14 11:30	11/18/14 10:27	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:27	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:27	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/14/14 11:30	11/18/14 10:27	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/14/14 11:30	11/18/14 10:27	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 11:12	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 12:32	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-173/GW-01 **Lab ID: 60182249008** Collected: 11/07/14 14:00 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	106-46-7	
Diethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 02:07	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07		
4-Nitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 02:07	100-02-7	
Phenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	108-95-2	
Pyridine	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	110-86-1	
Quinoline	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:07	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	70	%	10-135	1	11/13/14 00:00	11/15/14 02:07	4165-60-0	
2-Fluorobiphenyl (S)	72	%	19-124	1	11/13/14 00:00	11/15/14 02:07	321-60-8	
Terphenyl-d14 (S)	87	%	24-131	1	11/13/14 00:00	11/15/14 02:07	1718-51-0	
Phenol-d6 (S)	27	%	10-120	1	11/13/14 00:00	11/15/14 02:07	13127-88-3	
2-Fluorophenol (S)	39	%	13-120	1	11/13/14 00:00	11/15/14 02:07	367-12-4	
2,4,6-Tribromophenol (S)	85	%	29-121	1	11/13/14 00:00	11/15/14 02:07	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**1.9**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	83-32-9	
Acenaphthylene	**0.57**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	208-96-8	
Anthracene	**0.34**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	120-12-7	B
Anthracene	**0.28**	ug/L	0.10	1	11/19/14 00:00	11/20/14 00:22	120-12-7	H2
Benzo(a)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	53-70-3	
Fluoranthene	**0.10**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	206-44-0	B
Fluoranthene	ND	ug/L	0.10	1	11/19/14 00:00	11/20/14 00:22	206-44-0	H2
Fluorene	**2.5**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	193-39-5	
1-Methylnaphthalene	**49.2**	ug/L	2.5	5	11/12/14 00:00	11/18/14 14:55	90-12-0	
2-Methylnaphthalene	**64.6**	ug/L	2.5	5	11/12/14 00:00	11/18/14 14:55	91-57-6	
Naphthalene	**32.1**	ug/L	2.5	5	11/12/14 00:00	11/18/14 14:55	91-20-3	
Phenanthrene	**3.0**	ug/L	0.50	1	11/12/14 00:00	11/14/14 16:49	85-01-8	
Pyrene	**0.11**	ug/L	0.10	1	11/12/14 00:00	11/14/14 16:49	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	83	%	36-120	1	11/12/14 00:00	11/14/14 16:49	321-60-8	
2-Fluorobiphenyl (S)	84	%	36-120	1	11/19/14 00:00	11/20/14 00:22	321-60-8	
Terphenyl-d14 (S)	86	%	29-134	1	11/12/14 00:00	11/14/14 16:49	1718-51-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-173/GW-01 **Lab ID: 60182249008** Collected: 11/07/14 14:00 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Surrogates								
Terphenyl-d14 (S)	84	%	29-134	1	11/19/14 00:00	11/20/14 00:22	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**13.7**	ug/L	10.0	1		11/13/14 03:59	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/13/14 03:59	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/13/14 03:59	994-05-8	
Benzene	**3.3**	ug/L	1.0	1		11/13/14 03:59	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/13/14 03:59	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/13/14 03:59	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/13/14 03:59	75-65-0	
n-Butylbenzene	**4.0**	ug/L	1.0	1		11/13/14 03:59	104-51-8	
sec-Butylbenzene	**4.5**	ug/L	1.0	1		11/13/14 03:59	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/13/14 03:59	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/13/14 03:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/13/14 03:59	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/13/14 03:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/13/14 03:59	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/13/14 03:59	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/13/14 03:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/13/14 03:59	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/13/14 03:59	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/13/14 03:59	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/13/14 03:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/13/14 03:59	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/13/14 03:59	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/13/14 03:59	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/13/14 03:59	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/13/14 03:59	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/13/14 03:59	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/13/14 03:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 03:59	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/13/14 03:59	591-78-6	
Isopropylbenzene (Cumene)	**10**	ug/L	1.0	1		11/13/14 03:59	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/13/14 03:59	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/13/14 03:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/13/14 03:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 03:59	1634-04-4	
n-Propylbenzene	**10.8**	ug/L	1.0	1		11/13/14 03:59	103-65-1	
Styrene	ND	ug/L	1.0	1		11/13/14 03:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/13/14 03:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/13/14 03:59	127-18-4	
Toluene	ND	ug/L	1.0	1		11/13/14 03:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/13/14 03:59	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/13/14 03:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/13/14 03:59	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 03:59	95-63-6	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-173/GW-01 **Lab ID: 60182249008** Collected: 11/07/14 14:00 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 03:59	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/13/14 03:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/13/14 03:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/13/14 03:59	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		11/13/14 03:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/13/14 03:59	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/13/14 03:59	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/13/14 03:59		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**0.83**	mg/L	0.50	1		11/13/14 03:59		
Preservation pH	**1.0**		0.10	1		11/13/14 03:59		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		11/11/14 10:30		H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-160/GW-01 **Lab ID: 60182249009** Collected: 11/07/14 15:17 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:06	68334-30-5	
Fuel Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:06	68553-00-4	
Jet Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:06	94114-58-6	
Kerosene	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:06	8008-20-6	
Mineral Spirits	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:06	8030-30-6	
Motor Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:06	64742-65-0	
TEH as Diesel No.2	**5.0**	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:06		
Surrogates								
p-Terphenyl (S)	100	%	29-122	1	11/12/14 00:00	11/14/14 01:06	92-94-4	
n-Tetracosane (S)	78	%	20-120	1	11/12/14 00:00	11/14/14 01:06	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**34.1**	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:11	7440-38-2	
Barium	**766**	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:11	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:11	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:11	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:11	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 15:11	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 15:11	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**36.0**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:29	7440-38-2	D9
Barium, Dissolved	**772**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:29	7440-39-3	D9
Cadmium, Dissolved	ND	ug/L	1.0	1	11/14/14 11:30	11/18/14 10:29	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:29	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:29	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/14/14 11:30	11/18/14 10:29	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/14/14 11:30	11/18/14 10:29	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 11:18	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 12:38	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	106-46-7	
Diethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 02:27	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	95-48-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-160/GW-01 **Lab ID: 60182249009** Collected: 11/07/14 15:17 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27		
4-Nitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 02:27	100-02-7	
Phenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	108-95-2	
Pyridine	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	110-86-1	
Quinoline	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:27	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	80	%	10-135	1	11/13/14 00:00	11/15/14 02:27	4165-60-0	
2-Fluorobiphenyl (S)	82	%	19-124	1	11/13/14 00:00	11/15/14 02:27	321-60-8	
Terphenyl-d14 (S)	91	%	24-131	1	11/13/14 00:00	11/15/14 02:27	1718-51-0	
Phenol-d6 (S)	31	%	10-120	1	11/13/14 00:00	11/15/14 02:27	13127-88-3	
2-Fluorophenol (S)	43	%	13-120	1	11/13/14 00:00	11/15/14 02:27	367-12-4	
2,4,6-Tribromophenol (S)	96	%	29-121	1	11/13/14 00:00	11/15/14 02:27	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**1.9**	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	83-32-9	
Acenaphthylene	**0.60**	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	208-96-8	
Anthracene	**0.49**	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	120-12-7	B
Anthracene	**0.44**	ug/L	0.10	1	11/19/14 00:00	11/20/14 01:03	120-12-7	H2
Benzo(a)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	206-44-0	
Fluorene	**3.1**	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	193-39-5	
1-Methylnaphthalene	**91.2**	ug/L	5.0	10	11/12/14 00:00	11/18/14 15:15	90-12-0	
2-Methylnaphthalene	**117**	ug/L	5.0	10	11/12/14 00:00	11/18/14 15:15	91-57-6	
Naphthalene	**65.6**	ug/L	5.0	10	11/12/14 00:00	11/18/14 15:15	91-20-3	
Phenanthrene	**3.3**	ug/L	0.50	1	11/12/14 00:00	11/14/14 17:09	85-01-8	
Pyrene	**0.16**	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:09	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	81	%	36-120	1	11/19/14 00:00	11/20/14 01:03	321-60-8	
2-Fluorobiphenyl (S)	86	%	36-120	1	11/12/14 00:00	11/14/14 17:09	321-60-8	
Terphenyl-d14 (S)	87	%	29-134	1	11/12/14 00:00	11/14/14 17:09	1718-51-0	
Terphenyl-d14 (S)	80	%	29-134	1	11/19/14 00:00	11/20/14 01:03	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**29.0**	ug/L	10.0	1		11/13/14 04:48	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/13/14 04:48	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/13/14 04:48	994-05-8	
Benzene	**193**	ug/L	1.0	1		11/13/14 04:48	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/13/14 04:48	75-27-4	
2-Butanone (MEK)	**18.5**	ug/L	10.0	1		11/13/14 04:48	78-93-3	
tert-Butyl Alcohol	**48.8**	ug/L	10.0	1		11/13/14 04:48	75-65-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-160/GW-01 **Lab ID: 60182249009** Collected: 11/07/14 15:17 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
n-Butylbenzene	**16.1**	ug/L	1.0	1		11/13/14 04:48	104-51-8	
sec-Butylbenzene	**13.6**	ug/L	1.0	1		11/13/14 04:48	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/13/14 04:48	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/13/14 04:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/13/14 04:48	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/13/14 04:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/13/14 04:48	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/13/14 04:48	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/13/14 04:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/13/14 04:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/13/14 04:48	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/13/14 04:48	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/13/14 04:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/13/14 04:48	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/13/14 04:48	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/13/14 04:48	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/13/14 04:48	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/13/14 04:48	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/13/14 04:48	123-91-1	
Ethylbenzene	**3.3**	ug/L	1.0	1		11/13/14 04:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 04:48	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/13/14 04:48	591-78-6	
Isopropylbenzene (Cumene)	**49.2**	ug/L	1.0	1		11/13/14 04:48	98-82-8	
p-Isopropyltoluene	**4.5**	ug/L	1.0	1		11/13/14 04:48	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/13/14 04:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/13/14 04:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 04:48	1634-04-4	
n-Propylbenzene	**45.5**	ug/L	1.0	1		11/13/14 04:48	103-65-1	
Styrene	ND	ug/L	1.0	1		11/13/14 04:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/13/14 04:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/13/14 04:48	127-18-4	
Toluene	**8.9**	ug/L	1.0	1		11/13/14 04:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/13/14 04:48	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/13/14 04:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/13/14 04:48	75-69-4	
1,2,4-Trimethylbenzene	**1.7**	ug/L	1.0	1		11/13/14 04:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 04:48	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/13/14 04:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/13/14 04:48	75-01-4	
Xylene (Total)	**15.5**	ug/L	3.0	1		11/13/14 04:48	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		11/13/14 04:48	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	80-120	1		11/13/14 04:48	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/13/14 04:48	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/13/14 04:48		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-160/GW-01 **Lab ID: 60182249009** Collected: 11/07/14 15:17 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**4.8**	mg/L	0.50	1		11/13/14 04:48		
Preservation pH	**1.0**		0.10	1		11/13/14 04:48		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		11/11/14 10:30		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: TB-16 **Lab ID: 60182249010** Collected: 11/07/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/13/14 01:19	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/13/14 01:19	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/13/14 01:19	994-05-8	
Benzene	ND	ug/L	1.0	1		11/13/14 01:19	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/13/14 01:19	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/13/14 01:19	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/13/14 01:19	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/13/14 01:19	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/13/14 01:19	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/13/14 01:19	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/13/14 01:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/13/14 01:19	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/13/14 01:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/13/14 01:19	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/13/14 01:19	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/13/14 01:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/13/14 01:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/13/14 01:19	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/13/14 01:19	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/13/14 01:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/13/14 01:19	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/13/14 01:19	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/13/14 01:19	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/13/14 01:19	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/13/14 01:19	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/13/14 01:19	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/13/14 01:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 01:19	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/13/14 01:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/13/14 01:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/13/14 01:19	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/13/14 01:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/13/14 01:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 01:19	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/13/14 01:19	103-65-1	
Styrene	ND	ug/L	1.0	1		11/13/14 01:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/13/14 01:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/13/14 01:19	127-18-4	
Toluene	ND	ug/L	1.0	1		11/13/14 01:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/13/14 01:19	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/13/14 01:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/13/14 01:19	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 01:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 01:19	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/13/14 01:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/13/14 01:19	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/13/14 01:19	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: TB-16 **Lab ID: 60182249010** Collected: 11/07/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		11/13/14 01:19	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/13/14 01:19	17060-07-0	
Toluene-d8 (S)	101	%	80-120	1		11/13/14 01:19	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/13/14 01:19		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/13/14 01:19		
Preservation pH	**1.0**		0.10	1		11/13/14 01:19		

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-165/GW-01 **Lab ID: 60182249011** Collected: 11/06/14 17:28 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:14	68334-30-5	
Diesel Fuel	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:08	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:14	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:08	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:14	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:08	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:14	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:08	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:14	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:08	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:14	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:08	64742-65-0	H2
TEH as Diesel No.2	**3.6**	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:14		B
TEH as Diesel No.2	**2.6**	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:08		1e,H2
Surrogates								
p-Terphenyl (S)	85	%	29-122	1	11/19/14 00:00	11/20/14 13:08	92-94-4	
p-Terphenyl (S)	89	%	29-122	1	11/12/14 00:00	11/14/14 01:14	92-94-4	
n-Tetracosane (S)	82	%	20-120	1	11/19/14 00:00	11/20/14 13:08	646-31-1	
n-Tetracosane (S)	78	%	20-120	1	11/12/14 00:00	11/14/14 01:14	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	**64.5**	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:15	7440-38-2	
Barium	**206**	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:15	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:15	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:15	7440-47-3	
Lead	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:15	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 15:15	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 15:15	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	**62.3**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:32	7440-38-2	
Barium, Dissolved	**212**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:32	7440-39-3	D9
Cadmium, Dissolved	ND	ug/L	1.0	1	11/14/14 11:30	11/18/14 10:32	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:32	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:32	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/14/14 11:30	11/18/14 10:32	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/14/14 11:30	11/18/14 10:32	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 11:21	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 12:41	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-165/GW-01 **Lab ID: 60182249011** Collected: 11/06/14 17:28 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	106-46-7	
Diethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 02:48	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48		
4-Nitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 02:48	100-02-7	
Phenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	108-95-2	
Pyridine	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	110-86-1	
Quinoline	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 02:48	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	77	%	10-135	1	11/13/14 00:00	11/15/14 02:48	4165-60-0	
2-Fluorobiphenyl (S)	80	%	19-124	1	11/13/14 00:00	11/15/14 02:48	321-60-8	
Terphenyl-d14 (S)	95	%	24-131	1	11/13/14 00:00	11/15/14 02:48	1718-51-0	
Phenol-d6 (S)	29	%	10-120	1	11/13/14 00:00	11/15/14 02:48	13127-88-3	
2-Fluorophenol (S)	43	%	13-120	1	11/13/14 00:00	11/15/14 02:48	367-12-4	
2,4,6-Tribromophenol (S)	93	%	29-121	1	11/13/14 00:00	11/15/14 02:48	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**1.6**	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	83-32-9	
Acenaphthylene	**0.40**	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	208-96-8	
Anthracene	**0.18**	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	120-12-7	B
Anthracene	**0.15**	ug/L	0.10	1	11/19/14 00:00	11/20/14 01:45	120-12-7	H2
Benzo(a)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	206-44-0	
Fluorene	**3.1**	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	193-39-5	
1-Methylnaphthalene	**80.0**	ug/L	5.0	10	11/12/14 00:00	11/18/14 15:36	90-12-0	
2-Methylnaphthalene	**61.4**	ug/L	5.0	10	11/12/14 00:00	11/18/14 15:36	91-57-6	
Naphthalene	**44.0**	ug/L	5.0	10	11/12/14 00:00	11/18/14 15:36	91-20-3	
Phenanthrene	**1.0**	ug/L	0.50	1	11/12/14 00:00	11/14/14 17:29	85-01-8	
Pyrene	ND	ug/L	0.10	1	11/12/14 00:00	11/14/14 17:29	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	78	%	36-120	1	11/19/14 00:00	11/20/14 01:45	321-60-8	
2-Fluorobiphenyl (S)	82	%	36-120	1	11/12/14 00:00	11/14/14 17:29	321-60-8	
Terphenyl-d14 (S)	85	%	29-134	1	11/12/14 00:00	11/14/14 17:29	1718-51-0	
Terphenyl-d14 (S)	82	%	29-134	1	11/19/14 00:00	11/20/14 01:45	1718-51-0	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-165/GW-01 **Lab ID: 60182249011** Collected: 11/06/14 17:28 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**16.4**	ug/L	10.0	1		11/13/14 04:15	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/13/14 04:15	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/13/14 04:15	994-05-8	
Benzene	**185**	ug/L	1.0	1		11/13/14 04:15	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/13/14 04:15	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/13/14 04:15	78-93-3	
tert-Butyl Alcohol	**154**	ug/L	10.0	1		11/13/14 04:15	75-65-0	
n-Butylbenzene	**21.3**	ug/L	1.0	1		11/13/14 04:15	104-51-8	
sec-Butylbenzene	**13.5**	ug/L	1.0	1		11/13/14 04:15	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/13/14 04:15	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/13/14 04:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/13/14 04:15	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/13/14 04:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/13/14 04:15	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/13/14 04:15	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/13/14 04:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/13/14 04:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/13/14 04:15	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/13/14 04:15	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/13/14 04:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/13/14 04:15	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/13/14 04:15	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/13/14 04:15	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/13/14 04:15	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/13/14 04:15	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/13/14 04:15	123-91-1	
Ethylbenzene	**2.3**	ug/L	1.0	1		11/13/14 04:15	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 04:15	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/13/14 04:15	591-78-6	
Isopropylbenzene (Cumene)	**19.1**	ug/L	1.0	1		11/13/14 04:15	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/13/14 04:15	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/13/14 04:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/13/14 04:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 04:15	1634-04-4	
n-Propylbenzene	**31.1**	ug/L	1.0	1		11/13/14 04:15	103-65-1	
Styrene	ND	ug/L	1.0	1		11/13/14 04:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/13/14 04:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/13/14 04:15	127-18-4	
Toluene	**2.4**	ug/L	1.0	1		11/13/14 04:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/13/14 04:15	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/13/14 04:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/13/14 04:15	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 04:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 04:15	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/13/14 04:15	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/13/14 04:15	75-01-4	
Xylene (Total)	**4.4**	ug/L	3.0	1		11/13/14 04:15	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-165/GW-01 **Lab ID: 60182249011** Collected: 11/06/14 17:28 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		11/13/14 04:15	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/13/14 04:15	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/13/14 04:15	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/13/14 04:15		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**2.4**	mg/L	0.50	1		11/13/14 04:15		
Preservation pH	**1.0**		0.10	1		11/13/14 04:15		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		11/11/14 10:30		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-167/GW-01 **Lab ID: 60182249012** Collected: 11/06/14 18:54 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:22	68334-30-5	
Diesel Fuel	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:16	68334-30-5	H2
Fuel Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:22	68553-00-4	
Fuel Oil	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:16	68553-00-4	H2
Jet Fuel	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:22	94114-58-6	
Jet Fuel	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:16	94114-58-6	H2
Kerosene	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:22	8008-20-6	
Kerosene	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:16	8008-20-6	H2
Mineral Spirits	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:22	8030-30-6	
Mineral Spirits	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:16	8030-30-6	H2
Motor Oil	ND	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:22	64742-65-0	
Motor Oil	ND	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:16	64742-65-0	H2
TEH as Diesel No.2	**3.6**	mg/L	0.40	1	11/12/14 00:00	11/14/14 01:22		B
TEH as Diesel No.2	**1.8**	mg/L	0.40	1	11/19/14 00:00	11/20/14 13:16		1e,H2
Surrogates								
p-Terphenyl (S)	87	%	29-122	1	11/12/14 00:00	11/14/14 01:22	92-94-4	
p-Terphenyl (S)	88	%	29-122	1	11/19/14 00:00	11/20/14 13:16	92-94-4	
n-Tetracosane (S)	81	%	20-120	1	11/19/14 00:00	11/20/14 13:16	646-31-1	
n-Tetracosane (S)	57	%	20-120	1	11/12/14 00:00	11/14/14 01:22	646-31-1	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic	ND	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:17	7440-38-2	
Barium	**545**	ug/L	10.0	1	11/14/14 11:30	11/15/14 15:17	7440-39-3	
Cadmium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:17	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:17	7440-47-3	
Lead	**10.9**	ug/L	5.0	1	11/14/14 11:30	11/15/14 15:17	7439-92-1	
Selenium	ND	ug/L	15.0	1	11/14/14 11:30	11/15/14 15:17	7782-49-2	
Silver	ND	ug/L	7.0	1	11/14/14 11:30	11/15/14 15:17	7440-22-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Arsenic, Dissolved	ND	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:34	7440-38-2	
Barium, Dissolved	**343**	ug/L	10.0	1	11/14/14 11:30	11/18/14 10:34	7440-39-3	
Cadmium, Dissolved	ND	ug/L	1.0	1	11/14/14 11:30	11/18/14 10:34	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:34	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	1	11/14/14 11:30	11/18/14 10:34	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	1	11/14/14 11:30	11/18/14 10:34	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	11/14/14 11:30	11/18/14 10:34	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 11:23	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury, Dissolved	ND	ug/L	0.20	1	11/13/14 14:00	11/14/14 12:43	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,2-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	95-50-1	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-167/GW-01 **Lab ID: 60182249012** Collected: 11/06/14 18:54 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
1,3-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	106-46-7	
Diethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	105-67-9	
Dimethylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	84-74-2	
2,4-Dinitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 03:08	51-28-5	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	117-81-7	
2-Methylphenol(o-Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08		
4-Nitrophenol	ND	ug/L	53.8	1	11/13/14 00:00	11/15/14 03:08	100-02-7	
Phenol	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	108-95-2	
Pyridine	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	110-86-1	
Quinoline	ND	ug/L	10.8	1	11/13/14 00:00	11/15/14 03:08	91-22-5	
Surrogates								
Nitrobenzene-d5 (S)	34	%	10-135	1	11/13/14 00:00	11/15/14 03:08	4165-60-0	
2-Fluorobiphenyl (S)	30	%	19-124	1	11/13/14 00:00	11/15/14 03:08	321-60-8	
Terphenyl-d14 (S)	35	%	24-131	1	11/13/14 00:00	11/15/14 03:08	1718-51-0	
Phenol-d6 (S)	23	%	10-120	1	11/13/14 00:00	11/15/14 03:08	13127-88-3	
2-Fluorophenol (S)	31	%	13-120	1	11/13/14 00:00	11/15/14 03:08	367-12-4	
2,4,6-Tribromophenol (S)	37	%	29-121	1	11/13/14 00:00	11/15/14 03:08	118-79-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**1.2**	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	83-32-9	
Acenaphthylene	**0.14**	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	208-96-8	
Anthracene	**0.16**	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	207-08-9	
Chrysene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	206-44-0	
Fluorene	**1.0**	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	193-39-5	
1-Methylnaphthalene	**12.3**	ug/L	0.50	1	11/13/14 00:00	11/14/14 11:19	90-12-0	
2-Methylnaphthalene	**3.2**	ug/L	0.50	1	11/13/14 00:00	11/14/14 11:19	91-57-6	
Naphthalene	**30.6**	ug/L	2.5	5	11/13/14 00:00	11/14/14 18:10	91-20-3	
Phenanthrene	ND	ug/L	0.50	1	11/13/14 00:00	11/14/14 11:19	85-01-8	
Pyrene	**0.46**	ug/L	0.10	1	11/13/14 00:00	11/14/14 11:19	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	85	%	36-120	1	11/13/14 00:00	11/14/14 11:19	321-60-8	
Terphenyl-d14 (S)	90	%	29-134	1	11/13/14 00:00	11/14/14 11:19	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/13/14 04:32	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-167/GW-01 **Lab ID: 60182249012** Collected: 11/06/14 18:54 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acrylonitrile	ND	ug/L	20.0	1		11/13/14 04:32	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/13/14 04:32	994-05-8	
Benzene	**12.2**	ug/L	1.0	1		11/13/14 04:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/13/14 04:32	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/13/14 04:32	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/13/14 04:32	75-65-0	
n-Butylbenzene	**3.1**	ug/L	1.0	1		11/13/14 04:32	104-51-8	
sec-Butylbenzene	**2.4**	ug/L	1.0	1		11/13/14 04:32	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/13/14 04:32	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/13/14 04:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/13/14 04:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/13/14 04:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/13/14 04:32	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/13/14 04:32	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/13/14 04:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/13/14 04:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/13/14 04:32	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/13/14 04:32	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/13/14 04:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/13/14 04:32	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/13/14 04:32	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/13/14 04:32	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/13/14 04:32	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/13/14 04:32	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/13/14 04:32	123-91-1	
Ethylbenzene	**1.0**	ug/L	1.0	1		11/13/14 04:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 04:32	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/13/14 04:32	591-78-6	
Isopropylbenzene (Cumene)	**17.7**	ug/L	1.0	1		11/13/14 04:32	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/13/14 04:32	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/13/14 04:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/13/14 04:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 04:32	1634-04-4	
n-Propylbenzene	**16.7**	ug/L	1.0	1		11/13/14 04:32	103-65-1	
Styrene	ND	ug/L	1.0	1		11/13/14 04:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/13/14 04:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/13/14 04:32	127-18-4	
Toluene	ND	ug/L	1.0	1		11/13/14 04:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/13/14 04:32	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/13/14 04:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/13/14 04:32	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 04:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 04:32	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/13/14 04:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/13/14 04:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/13/14 04:32	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: MW-167/GW-01 **Lab ID: 60182249012** Collected: 11/06/14 18:54 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		11/13/14 04:32	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		11/13/14 04:32	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/13/14 04:32	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/13/14 04:32		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	**1.9**	mg/L	0.50	1		11/13/14 04:32		
Preservation pH	**1.0**		0.10	1		11/13/14 04:32		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.0**	Std. Units	0.10	1		11/11/14 10:30		H6

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: TB-13 **Lab ID: 60182249013** Collected: 11/06/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/13/14 01:35	67-64-1	
Acrylonitrile	ND	ug/L	20.0	1		11/13/14 01:35	107-13-1	
tert-Amylmethyl ether	ND	ug/L	1.0	1		11/13/14 01:35	994-05-8	
Benzene	ND	ug/L	1.0	1		11/13/14 01:35	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		11/13/14 01:35	75-27-4	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/13/14 01:35	78-93-3	
tert-Butyl Alcohol	ND	ug/L	10.0	1		11/13/14 01:35	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	1		11/13/14 01:35	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/13/14 01:35	135-98-8	
Carbon disulfide	ND	ug/L	5.0	1		11/13/14 01:35	75-15-0	
Chlorobenzene	ND	ug/L	1.0	1		11/13/14 01:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/13/14 01:35	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/13/14 01:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/13/14 01:35	74-87-3	
4-Chlorotoluene	ND	ug/L	1.0	1		11/13/14 01:35	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	1		11/13/14 01:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/13/14 01:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/13/14 01:35	74-95-3	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		11/13/14 01:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/13/14 01:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/13/14 01:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/13/14 01:35	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/13/14 01:35	75-35-4	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/13/14 01:35	78-87-5	
Diisopropyl ether	ND	ug/L	1.0	1		11/13/14 01:35	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	100	1		11/13/14 01:35	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		11/13/14 01:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 01:35	637-92-3	
2-Hexanone	ND	ug/L	10.0	1		11/13/14 01:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/13/14 01:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/13/14 01:35	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/13/14 01:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/13/14 01:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/13/14 01:35	1634-04-4	
n-Propylbenzene	ND	ug/L	1.0	1		11/13/14 01:35	103-65-1	
Styrene	ND	ug/L	1.0	1		11/13/14 01:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/13/14 01:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/13/14 01:35	127-18-4	
Toluene	ND	ug/L	1.0	1		11/13/14 01:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/13/14 01:35	71-55-6	
Trichloroethene	ND	ug/L	1.0	1		11/13/14 01:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/13/14 01:35	75-69-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 01:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/13/14 01:35	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/13/14 01:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/13/14 01:35	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/13/14 01:35	1330-20-7	

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ANALYTICAL RESULTS

Project: KDHE NEODESHA
Pace Project No.: 60182249

Sample: TB-13 **Lab ID: 60182249013** Collected: 11/06/14 08:25 Received: 11/08/14 08:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		11/13/14 01:35	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/13/14 01:35	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/13/14 01:35	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/13/14 01:35		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1							
Gasoline Range Organics	ND	mg/L	0.50	1		11/13/14 01:35		
Preservation pH	**1.0**		0.10	1		11/13/14 01:35		

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: MERP/9047 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

METHOD BLANK: 1477928 | Matrix: Water
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/14/14 10:52	

LABORATORY CONTROL SAMPLE: 1477929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	109	80-120	

MATRIX SPIKE SAMPLE: 1477930

Parameter	Units	60182249005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	1.4	29	75-125	M1

SAMPLE DUPLICATE: 1477940

Parameter	Units	60182249006 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: MERP/9049 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

METHOD BLANK: 1477953 — Matrix: Water
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	11/14/14 12:12	

LABORATORY CONTROL SAMPLE: 1477954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1477955 1477956

Parameter	Units	60182249001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	3.7	3.6	74	72	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: MPRP/29791 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

METHOD BLANK: 1478729 — Matrix: Water
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	11/15/14 13:56	
Barium	ug/L	ND	10.0	11/15/14 13:56	
Cadmium	ug/L	ND	5.0	11/15/14 13:56	
Chromium	ug/L	ND	5.0	11/15/14 13:56	
Lead	ug/L	ND	5.0	11/15/14 13:56	
Selenium	ug/L	ND	15.0	11/15/14 13:56	
Silver	ug/L	ND	7.0	11/15/14 13:56	

LABORATORY CONTROL SAMPLE: 1478730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	978	98	80-120	
Barium	ug/L	1000	1030	103	80-120	
Cadmium	ug/L	1000	992	99	80-120	
Chromium	ug/L	1000	952	95	80-120	
Lead	ug/L	1000	984	98	80-120	
Selenium	ug/L	1000	956	96	80-120	
Silver	ug/L	500	471	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1478734 — 1478735

Parameter	Units	60182189011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	1060	1100	106	110	75-125	4	20	
Barium	ug/L	32.0	1000	1000	1070	1100	104	106	75-125	2	20	
Cadmium	ug/L	ND	1000	1000	1030	1080	103	108	75-125	4	20	
Chromium	ug/L	ND	1000	1000	918	925	92	92	75-125	1	20	
Lead	ug/L	ND	1000	1000	966	1010	97	101	75-125	5	20	
Selenium	ug/L	ND	1000	1000	1070	1120	107	112	75-125	4	20	
Silver	ug/L	ND	500	500	498	507	99	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: MPRP/29793 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

METHOD BLANK: 1478745 — Matrix: Water
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	10.0	11/18/14 10:02	
Barium, Dissolved	ug/L	ND	10.0	11/18/14 10:02	
Cadmium, Dissolved	ug/L	ND	1.0	11/18/14 10:02	
Chromium, Dissolved	ug/L	ND	5.0	11/18/14 10:02	
Lead, Dissolved	ug/L	ND	5.0	11/18/14 10:02	
Selenium, Dissolved	ug/L	ND	15.0	11/18/14 10:02	
Silver, Dissolved	ug/L	ND	7.0	11/18/14 10:02	

LABORATORY CONTROL SAMPLE: 1478746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	990	99	80-120	
Barium, Dissolved	ug/L	1000	1030	103	80-120	
Cadmium, Dissolved	ug/L	1000	1010	101	80-120	
Chromium, Dissolved	ug/L	1000	1000	100	80-120	
Lead, Dissolved	ug/L	1000	1020	102	80-120	
Selenium, Dissolved	ug/L	1000	1000	100	80-120	
Silver, Dissolved	ug/L	500	497	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1478747 1478748

Parameter	Units	60182249001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	ND	1000	1000	1010	996	100	99	75-125	1	20	
Barium, Dissolved	ug/L	66.4	1000	1000	1080	1080	101	101	75-125	0	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	1010	1000	101	100	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	981	992	98	99	75-125	1	20	
Lead, Dissolved	ug/L	ND	1000	1000	1000	991	100	99	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	1000	988	100	99	75-125	2	20	
Silver, Dissolved	ug/L	ND	500	500	498	497	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: MSV/65713 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60182249001, 60182249002, 60182249003, 60182249005, 60182249006, 60182249007, 60182249008, 60182249009, 60182249010, 60182249011, 60182249012, 60182249013

METHOD BLANK: 1477499 | Matrix: Water
Associated Lab Samples: 60182249001, 60182249002, 60182249003, 60182249005, 60182249006, 60182249007, 60182249008, 60182249009, 60182249010, 60182249011, 60182249012, 60182249013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/13/14 00:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/13/14 00:30	
1,1-Dichloroethane	ug/L	ND	1.0	11/13/14 00:30	
1,1-Dichloroethene	ug/L	ND	1.0	11/13/14 00:30	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/13/14 00:30	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/13/14 00:30	
1,2-Dichloroethane	ug/L	ND	1.0	11/13/14 00:30	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/13/14 00:30	
1,2-Dichloropropane	ug/L	ND	1.0	11/13/14 00:30	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/13/14 00:30	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/13/14 00:30	
2-Butanone (MEK)	ug/L	ND	10.0	11/13/14 00:30	
2-Hexanone	ug/L	ND	10.0	11/13/14 00:30	
4-Chlorotoluene	ug/L	ND	1.0	11/13/14 00:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/13/14 00:30	
Acetone	ug/L	ND	10.0	11/13/14 00:30	
Acrylonitrile	ug/L	ND	20.0	11/13/14 00:30	
Benzene	ug/L	ND	1.0	11/13/14 00:30	
Bromodichloromethane	ug/L	ND	1.0	11/13/14 00:30	
Carbon disulfide	ug/L	ND	5.0	11/13/14 00:30	
Chlorobenzene	ug/L	ND	1.0	11/13/14 00:30	
Chloroethane	ug/L	ND	1.0	11/13/14 00:30	
Chloroform	ug/L	ND	1.0	11/13/14 00:30	
Chloromethane	ug/L	ND	1.0	11/13/14 00:30	
Dibromochloromethane	ug/L	ND	1.0	11/13/14 00:30	
Dibromomethane	ug/L	ND	1.0	11/13/14 00:30	
Diisopropyl ether	ug/L	ND	1.0	11/13/14 00:30	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/13/14 00:30	
Ethylbenzene	ug/L	ND	1.0	11/13/14 00:30	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/13/14 00:30	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/13/14 00:30	
Methylene chloride	ug/L	ND	1.0	11/13/14 00:30	
n-Butylbenzene	ug/L	ND	1.0	11/13/14 00:30	
n-Propylbenzene	ug/L	ND	1.0	11/13/14 00:30	
p-Isopropyltoluene	ug/L	ND	1.0	11/13/14 00:30	
sec-Butylbenzene	ug/L	ND	1.0	11/13/14 00:30	
Styrene	ug/L	ND	1.0	11/13/14 00:30	
tert-Amylmethyl ether	ug/L	ND	1.0	11/13/14 00:30	
tert-Butyl Alcohol	ug/L	ND	10.0	11/13/14 00:30	
Tetrachloroethene	ug/L	ND	1.0	11/13/14 00:30	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

METHOD BLANK: 1477499 Matrix: Water

Associated Lab Samples: 60182249001, 60182249002, 60182249003, 60182249005, 60182249006, 60182249007, 60182249008, 60182249009, 60182249010, 60182249011, 60182249012, 60182249013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	11/13/14 00:30	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/13/14 00:30	
Trichloroethene	ug/L	ND	1.0	11/13/14 00:30	
Trichlorofluoromethane	ug/L	ND	1.0	11/13/14 00:30	
Vinyl acetate	ug/L	ND	10.0	11/13/14 00:30	
Vinyl chloride	ug/L	ND	1.0	11/13/14 00:30	
Xylene (Total)	ug/L	ND	3.0	11/13/14 00:30	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/13/14 00:30	
4-Bromofluorobenzene (S)	%	97	80-120	11/13/14 00:30	
Toluene-d8 (S)	%	101	80-120	11/13/14 00:30	

LABORATORY CONTROL SAMPLE: 1477500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	96	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	73-124	
1,1-Dichloroethane	ug/L	20	19.3	97	77-120	
1,1-Dichloroethene	ug/L	20	18.4	92	78-126	
1,2,4-Trimethylbenzene	ug/L	20	20.3	101	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	20.8	104	80-127	
1,2-Dichloroethane	ug/L	20	19.3	96	77-123	
1,2-Dichloroethene (Total)	ug/L	40	38.1	95	80-120	
1,2-Dichloropropane	ug/L	20	19.2	96	80-121	
1,3,5-Trimethylbenzene	ug/L	20	20.3	102	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	94.8J	95	44-160	
2-Butanone (MEK)	ug/L	100	93.2	93	52-145	
2-Hexanone	ug/L	100	99.2	99	57-139	
4-Chlorotoluene	ug/L	20	19.8	99	80-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.3	98	71-131	
Acetone	ug/L	100	94.2	94	32-155	
Acrylonitrile	ug/L	200	204	102	75-125	
Benzene	ug/L	20	19.1	96	80-120	
Bromodichloromethane	ug/L	20	20.5	102	80-120	
Carbon disulfide	ug/L	20	20.8	104	65-125	
Chlorobenzene	ug/L	20	20.1	100	80-120	
Chloroethane	ug/L	20	17.7	88	55-137	
Chloroform	ug/L	20	19.7	99	79-120	
Chloromethane	ug/L	20	17.4	87	22-138	
Dibromochloromethane	ug/L	20	19.6	98	80-120	
Dibromomethane	ug/L	20	20.8	104	80-122	
Diisopropyl ether	ug/L	20	19.6	98	70-123	
Ethyl-tert-butyl ether	ug/L	20	19.3	96	73-120	
Ethylbenzene	ug/L	20	19.9	99	80-121	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

LABORATORY CONTROL SAMPLE: 1477500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/L	20	20.1	100	80-136	
Methyl-tert-butyl ether	ug/L	20	19.9	100	74-125	
Methylene chloride	ug/L	20	21.1	105	73-126	
n-Butylbenzene	ug/L	20	20.5	102	83-123	
n-Propylbenzene	ug/L	20	19.7	98	80-122	
p-Isopropyltoluene	ug/L	20	19.8	99	80-124	
sec-Butylbenzene	ug/L	20	19.9	100	80-129	
Styrene	ug/L	20	20.9	105	80-120	
tert-Amylmethyl ether	ug/L	20	20.3	101	74-120	
tert-Butyl Alcohol	ug/L	100	98.9	99	50-139	
Tetrachloroethene	ug/L	20	18.9	95	80-121	
Toluene	ug/L	20	19.5	97	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	21.6	108	59-133	
Trichloroethene	ug/L	20	20.2	101	80-120	
Trichlorofluoromethane	ug/L	20	20.2	101	67-120	
Vinyl acetate	ug/L	20	18.5	92	45-160	
Vinyl chloride	ug/L	20	19.0	95	59-120	
Xylene (Total)	ug/L	60	59.7	99	80-121	
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: MSV/65821
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60182249004

METHOD BLANK: 1480543
Matrix: Water
Associated Lab Samples: 60182249004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	11/18/14 10:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/18/14 10:00	
1,1-Dichloroethane	ug/L	ND	1.0	11/18/14 10:00	
1,1-Dichloroethene	ug/L	ND	1.0	11/18/14 10:00	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/18/14 10:00	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/18/14 10:00	
1,2-Dichloroethane	ug/L	ND	1.0	11/18/14 10:00	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/18/14 10:00	
1,2-Dichloropropane	ug/L	ND	1.0	11/18/14 10:00	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/18/14 10:00	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	11/18/14 10:00	
2-Butanone (MEK)	ug/L	ND	10.0	11/18/14 10:00	
2-Hexanone	ug/L	ND	10.0	11/18/14 10:00	
4-Chlorotoluene	ug/L	ND	1.0	11/18/14 10:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/18/14 10:00	
Acetone	ug/L	ND	10.0	11/18/14 10:00	
Acrylonitrile	ug/L	ND	20.0	11/18/14 10:00	
Benzene	ug/L	ND	1.0	11/18/14 10:00	
Bromodichloromethane	ug/L	ND	1.0	11/18/14 10:00	
Carbon disulfide	ug/L	ND	5.0	11/18/14 10:00	
Chlorobenzene	ug/L	ND	1.0	11/18/14 10:00	
Chloroethane	ug/L	ND	1.0	11/18/14 10:00	
Chloroform	ug/L	ND	1.0	11/18/14 10:00	
Chloromethane	ug/L	ND	1.0	11/18/14 10:00	
Dibromochloromethane	ug/L	ND	1.0	11/18/14 10:00	
Dibromomethane	ug/L	ND	1.0	11/18/14 10:00	
Diisopropyl ether	ug/L	ND	1.0	11/18/14 10:00	
Ethyl-tert-butyl ether	ug/L	ND	1.0	11/18/14 10:00	
Ethylbenzene	ug/L	ND	1.0	11/18/14 10:00	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/18/14 10:00	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/18/14 10:00	
Methylene chloride	ug/L	ND	1.0	11/18/14 10:00	
n-Butylbenzene	ug/L	ND	1.0	11/18/14 10:00	
n-Propylbenzene	ug/L	ND	1.0	11/18/14 10:00	
p-Isopropyltoluene	ug/L	ND	1.0	11/18/14 10:00	
sec-Butylbenzene	ug/L	ND	1.0	11/18/14 10:00	
Styrene	ug/L	ND	1.0	11/18/14 10:00	
tert-Amylmethyl ether	ug/L	ND	1.0	11/18/14 10:00	
tert-Butyl Alcohol	ug/L	ND	10.0	11/18/14 10:00	
Tetrachloroethene	ug/L	ND	1.0	11/18/14 10:00	
Toluene	ug/L	ND	1.0	11/18/14 10:00	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

METHOD BLANK: 1480543 Matrix: Water
Associated Lab Samples: 60182249004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	11/18/14 10:00	
Trichloroethene	ug/L	ND	1.0	11/18/14 10:00	
Trichlorofluoromethane	ug/L	ND	1.0	11/18/14 10:00	
Vinyl acetate	ug/L	ND	10.0	11/18/14 10:00	
Vinyl chloride	ug/L	ND	1.0	11/18/14 10:00	
Xylene (Total)	ug/L	ND	3.0	11/18/14 10:00	
1,2-Dichloroethane-d4 (S)	%	100	80-120	11/18/14 10:00	
4-Bromofluorobenzene (S)	%	97	80-120	11/18/14 10:00	
Toluene-d8 (S)	%	100	80-120	11/18/14 10:00	

LABORATORY CONTROL SAMPLE: 1480544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.6	103	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	21.4	107	73-124	
1,1-Dichloroethane	ug/L	20	19.9	99	77-120	
1,1-Dichloroethene	ug/L	20	20.8	104	78-126	
1,2,4-Trimethylbenzene	ug/L	20	21.0	105	80-122	
1,2-Dibromoethane (EDB)	ug/L	20	21.8	109	80-127	
1,2-Dichloroethane	ug/L	20	21.3	106	77-123	
1,2-Dichloroethene (Total)	ug/L	40	42.1	105	80-120	
1,2-Dichloropropane	ug/L	20	20.9	104	80-121	
1,3,5-Trimethylbenzene	ug/L	20	21.2	106	80-121	
1,4-Dioxane (p-Dioxane)	ug/L	100	106	106	44-160	
2-Butanone (MEK)	ug/L	100	97.8	98	52-145	
2-Hexanone	ug/L	100	103	103	57-139	
4-Chlorotoluene	ug/L	20	20.5	102	80-121	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	71-131	
Acetone	ug/L	100	105	105	32-155	
Acrylonitrile	ug/L	200	221	110	75-125	
Benzene	ug/L	20	21.6	108	80-120	
Bromodichloromethane	ug/L	20	21.5	107	80-120	
Carbon disulfide	ug/L	20	21.9	110	65-125	
Chlorobenzene	ug/L	20	20.9	105	80-120	
Chloroethane	ug/L	20	18.9	94	55-137	
Chloroform	ug/L	20	21.0	105	79-120	
Chloromethane	ug/L	20	21.9	110	22-138	
Dibromochloromethane	ug/L	20	20.7	104	80-120	
Dibromomethane	ug/L	20	21.7	108	80-122	
Diisopropyl ether	ug/L	20	21.2	106	70-123	
Ethyl-tert-butyl ether	ug/L	20	21.9	109	73-120	
Ethylbenzene	ug/L	20	20.6	103	80-121	
Isopropylbenzene (Cumene)	ug/L	20	21.4	107	80-136	
Methyl-tert-butyl ether	ug/L	20	21.2	106	74-125	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

LABORATORY CONTROL SAMPLE: 1480544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene chloride	ug/L	20	20.6	103	73-126	
n-Butylbenzene	ug/L	20	21.4	107	83-123	
n-Propylbenzene	ug/L	20	20.4	102	80-122	
p-Isopropyltoluene	ug/L	20	21.7	109	80-124	
sec-Butylbenzene	ug/L	20	20.9	104	80-129	
Styrene	ug/L	20	21.9	110	80-120	
tert-Amylmethyl ether	ug/L	20	22.1	110	74-120	
tert-Butyl Alcohol	ug/L	100	112	112	50-139	
Tetrachloroethene	ug/L	20	20.6	103	80-121	
Toluene	ug/L	20	20.4	102	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	19.7	99	59-133	
Trichloroethene	ug/L	20	20.2	101	80-120	
Trichlorofluoromethane	ug/L	20	20.9	105	67-120	
Vinyl acetate	ug/L	20	20.2	101	45-160	
Vinyl chloride	ug/L	20	20.5	102	59-120	
Xylene (Total)	ug/L	60	63.7	106	80-121	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1480545 1480546

Parameter	Units	60182637002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	21.0	21.4	105	107	71-136	2	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.6	20.7	88	103	61-127	16	21	
1,1-Dichloroethane	ug/L	ND	20	20	19.7	20.0	99	100	62-128	1	25	
1,1-Dichloroethene	ug/L	ND	20	20	20.9	21.5	105	107	60-144	3	28	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.7	21.8	98	108	51-142	10	22	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.7	20.0	94	100	55-140	7	34	
1,2-Dichloroethane	ug/L	ND	20	20	18.3	19.9	92	99	49-148	8	35	
1,2-Dichloroethene (Total)	ug/L	1.1	40	40	41.5	42.3	101	103	62-136	2	20	
1,2-Dichloropropane	ug/L	ND	20	20	18.6	19.3	93	96	66-130	4	22	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.1	22.2	101	111	51-143	9	21	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	100	82.2J	115	82	115	19-160		30	
2-Butanone (MEK)	ug/L	ND	100	100	77.7	86.1	78	86	36-145	10	23	
2-Hexanone	ug/L	ND	100	100	85.1	94.7	85	95	42-140	11	24	
4-Chlorotoluene	ug/L	ND	20	20	19.3	21.3	96	107	67-127	10	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	88.8	99.7	86	97	52-137	12	24	
Acetone	ug/L	ND	100	100	84.0	92.5	84	92	24-151	10	23	
Acrylonitrile	ug/L	ND	200	200	182	204	91	102	67-122	12	30	
Benzene	ug/L	2.7	20	20	23.3	23.7	103	105	37-157	2	32	
Bromodichloromethane	ug/L	ND	20	20	19.8	21.4	99	107	67-125	8	21	
Carbon disulfide	ug/L	ND	20	20	23.2	23.6	116	118	57-133	1	23	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1480545 1480546

Parameter	Units	60182637002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	20	20	19.3	20.0	97	100	66-133	3	20	
Chloroethane	ug/L	ND	20	20	19.7	20.3	98	101	46-147	3	28	
Chloroform	ug/L	ND	20	20	20.3	20.8	98	101	66-127	2	20	
Chloromethane	ug/L	ND	20	20	23.3	23.2	116	116	19-136	1	36	
Dibromochloromethane	ug/L	ND	20	20	18.0	19.3	90	96	62-130	7	22	
Dibromomethane	ug/L	ND	20	20	19.1	19.9	96	100	63-131	4	24	
Diisopropyl ether	ug/L	ND	20	20	18.6	20.2	93	101	25-157	8	45	
Ethyl-tert-butyl ether	ug/L	ND	20	20	19.2	20.0	96	100	26-155	4	44	
Ethylbenzene	ug/L	ND	20	20	19.9	20.2	97	99	31-160	2	32	
Isopropylbenzene (Cumene)	ug/L	1.5	20	20	22.1	22.9	103	107	66-150	4	20	
Methyl-tert-butyl ether	ug/L	1.6	20	20	19.6	21.2	90	98	33-157	8	37	
Methylene chloride	ug/L	ND	20	20	19.2	19.7	96	98	55-132	2	23	
n-Butylbenzene	ug/L	ND	20	20	21.4	23.7	107	119	58-136	10	20	
n-Propylbenzene	ug/L	1.2	20	20	21.0	22.1	99	105	56-137	5	20	
p-Isopropyltoluene	ug/L	ND	20	20	20.5	22.8	102	114	50-146	11	21	
sec-Butylbenzene	ug/L	ND	20	20	21.2	22.9	103	111	63-139	8	20	
Styrene	ug/L	ND	20	20	19.7	20.7	99	103	55-134	5	25	
tert-Amylmethyl ether	ug/L	ND	20	20	18.7	20.2	93	101	22-160	8	38	
tert-Butyl Alcohol	ug/L	ND	100	100	90.7	98.5	85	92	17-160	8	45	
Tetrachloroethene	ug/L	ND	20	20	19.9	20.4	100	102	69-133	2	20	
Toluene	ug/L	ND	20	20	19.9	20.4	100	102	35-157	2	37	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	17.7	19.2	89	96	59-133		30	
Trichloroethene	ug/L	3.8	20	20	22.8	23.5	95	98	61-135	3	21	
Trichlorofluoromethane	ug/L	ND	20	20	22.1	22.4	110	112	56-130	1	23	
Vinyl acetate	ug/L	ND	20	20	17.8	18.5	89	93	44-160		30	
Vinyl chloride	ug/L	ND	20	20	22.5	23.1	113	115	44-128	2	22	
Xylene (Total)	ug/L	ND	60	60	60.3	62.9	100	105	34-156	4	37	
1,2-Dichloroethane-d4 (S)	%						98	97	80-120			
4-Bromofluorobenzene (S)	%						98	105	80-120			
Toluene-d8 (S)	%						99	99	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: MSV/65722 | Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 | Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60182249001, 60182249002, 60182249003, 60182249005, 60182249006, 60182249007, 60182249008, 60182249009, 60182249010, 60182249011, 60182249012, 60182249013

METHOD BLANK: 1477861 | Matrix: Water
Associated Lab Samples: 60182249001, 60182249002, 60182249003, 60182249005, 60182249006, 60182249007, 60182249008, 60182249009, 60182249010, 60182249011, 60182249012, 60182249013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/13/14 00:30	

LABORATORY CONTROL SAMPLE: 1477862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.3	84	62-121	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: MSV/65804
QC Batch Method: EPA 8260/OA1
Analysis Method: EPA 8260/OA1
Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60182249004

METHOD BLANK: 1480238
Matrix: Water
Associated Lab Samples: 60182249004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	11/17/14 11:51	
1,2-Dichloroethane-d4 (S)	%	96	80-120	11/17/14 11:51	
4-Bromofluorobenzene (S)	%	104	80-120	11/17/14 11:51	
Toluene-d8 (S)	%	104	80-120	11/17/14 11:51	

LABORATORY CONTROL SAMPLE: 1480239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	4.4	110	62-121	
1,2-Dichloroethane-d4 (S)	%			92	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1480240 1480241

Parameter	Units	60182178003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						84	89	80-120			
4-Bromofluorobenzene (S)	%						97	100	80-120			
Toluene-d8 (S)	%						100	103	80-120			
Preservation pH		1.0			1.0	1.0				0		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1480242 1480243

Parameter	Units	60182178008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						88	92	80-120			
4-Bromofluorobenzene (S)	%						96	99	80-120			
Toluene-d8 (S)	%						99	98	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1480256 1480257

Parameter	Units	60182216009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						91	95	80-120			
4-Bromofluorobenzene (S)	%						97	98	80-120			
Toluene-d8 (S)	%						97	97	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: OEXT/47096 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

METHOD BLANK: 1477794 | Matrix: Water
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichlorobenzene	ug/L	ND	10.0	11/14/14 23:43	
1,3-Dichlorobenzene	ug/L	ND	10.0	11/14/14 23:43	
1,4-Dichlorobenzene	ug/L	ND	10.0	11/14/14 23:43	
2,4-Dimethylphenol	ug/L	ND	10.0	11/14/14 23:43	
2,4-Dinitrophenol	ug/L	ND	50.0	11/14/14 23:43	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	11/14/14 23:43	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/14/14 23:43	
4-Nitrophenol	ug/L	ND	50.0	11/14/14 23:43	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	11/14/14 23:43	
Di-n-butylphthalate	ug/L	ND	10.0	11/14/14 23:43	
Diethylphthalate	ug/L	ND	10.0	11/14/14 23:43	
Dimethylphthalate	ug/L	ND	10.0	11/14/14 23:43	
Phenol	ug/L	ND	10.0	11/14/14 23:43	
Pyridine	ug/L	ND	10.0	11/14/14 23:43	
Quinoline	ug/L	ND	10.0	11/14/14 23:43	
2,4,6-Tribromophenol (S)	%	87	29-121	11/14/14 23:43	
2-Fluorobiphenyl (S)	%	80	19-124	11/14/14 23:43	
2-Fluorophenol (S)	%	48	13-120	11/14/14 23:43	
Nitrobenzene-d5 (S)	%	75	10-135	11/14/14 23:43	
Phenol-d6 (S)	%	31	10-120	11/14/14 23:43	
Terphenyl-d14 (S)	%	93	24-131	11/14/14 23:43	

LABORATORY CONTROL SAMPLE: 1477795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	43.5	87	45-120	
1,3-Dichlorobenzene	ug/L	50	42.2	84	44-120	
1,4-Dichlorobenzene	ug/L	50	41.9	84	44-120	
2,4-Dimethylphenol	ug/L	50	41.0	82	35-120	
2,4-Dinitrophenol	ug/L	50	44.5J	89	21-120	
2-Methylphenol(o-Cresol)	ug/L	50	39.8	80	40-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	36.4	73	34-120	
4-Nitrophenol	ug/L	50	21.2J	42	10-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	45.6	91	52-123	
Di-n-butylphthalate	ug/L	50	45.1	90	49-125	
Diethylphthalate	ug/L	50	44.8	90	53-120	
Dimethylphthalate	ug/L	50	43.3	87	52-120	
Phenol	ug/L	50	20.3	41	12-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

LABORATORY CONTROL SAMPLE: 1477795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyridine	ug/L	50	26.5	53	10-120	
Quinoline	ug/L	50	42.3	85	37-120	
2,4,6-Tribromophenol (S)	%			96	29-121	
2-Fluorobiphenyl (S)	%			85	19-124	
2-Fluorophenol (S)	%			48	13-120	
Nitrobenzene-d5 (S)	%			83	10-135	
Phenol-d6 (S)	%			32	10-120	
Terphenyl-d14 (S)	%			95	24-131	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: OEXT/47117
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270C by SIM
Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60182249002, 60182249012

METHOD BLANK: 1478467
Matrix: Water
Associated Lab Samples: 60182249002, 60182249012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	0.50	11/14/14 10:18	
2-Methylnaphthalene	ug/L	ND	0.50	11/14/14 10:18	
Acenaphthene	ug/L	ND	0.10	11/14/14 10:18	
Acenaphthylene	ug/L	ND	0.10	11/14/14 10:18	
Anthracene	ug/L	ND	0.10	11/14/14 10:18	
Benzo(a)anthracene	ug/L	ND	0.10	11/14/14 10:18	
Benzo(a)pyrene	ug/L	ND	0.10	11/14/14 10:18	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/14/14 10:18	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/14/14 10:18	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/14/14 10:18	
Chrysene	ug/L	ND	0.10	11/14/14 10:18	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/14/14 10:18	
Fluoranthene	ug/L	ND	0.10	11/14/14 10:18	
Fluorene	ug/L	ND	0.10	11/14/14 10:18	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/14/14 10:18	
Naphthalene	ug/L	ND	0.50	11/14/14 10:18	
Phenanthrene	ug/L	ND	0.50	11/14/14 10:18	
Pyrene	ug/L	ND	0.10	11/14/14 10:18	
2-Fluorobiphenyl (S)	%	92	36-120	11/14/14 10:18	
Terphenyl-d14 (S)	%	104	29-134	11/14/14 10:18	

LABORATORY CONTROL SAMPLE: 1478468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	8.7	87	59-120	
2-Methylnaphthalene	ug/L	10	8.9	89	52-120	
Acenaphthene	ug/L	10	8.6	86	45-120	
Acenaphthylene	ug/L	10	9.2	92	42-120	
Anthracene	ug/L	10	9.4	94	39-120	
Benzo(a)anthracene	ug/L	10	10.1	101	40-125	
Benzo(a)pyrene	ug/L	10	10.6	106	39-122	
Benzo(b)fluoranthene	ug/L	10	10.9	109	33-134	
Benzo(g,h,i)perylene	ug/L	10	9.4	94	27-126	
Benzo(k)fluoranthene	ug/L	10	8.5	85	43-123	
Chrysene	ug/L	10	8.7	87	44-120	
Dibenz(a,h)anthracene	ug/L	10	9.4	94	21-129	
Fluoranthene	ug/L	10	10.2	102	45-126	
Fluorene	ug/L	10	9.4	94	44-120	
Indeno(1,2,3-cd)pyrene	ug/L	10	9.4	94	25-127	
Naphthalene	ug/L	10	8.7	87	44-120	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

LABORATORY CONTROL SAMPLE: 1478468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	9.2	92	43-120	
Pyrene	ug/L	10	8.6	86	39-120	
2-Fluorobiphenyl (S)	%			87	36-120	
Terphenyl-d14 (S)	%			85	29-134	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: OEXT/47186 Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60182249001, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011

METHOD BLANK: 1481169 Matrix: Water
Associated Lab Samples: 60182249001, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Anthracene	ug/L	ND	0.10	11/19/14 21:19	
Fluoranthene	ug/L	ND	0.10	11/19/14 21:19	
2-Fluorobiphenyl (S)	%	89	36-120	11/19/14 21:19	
Terphenyl-d14 (S)	%	87	29-134	11/19/14 21:19	

LABORATORY CONTROL SAMPLE: 1481170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	ug/L	10	8.5	85	39-120	
Fluoranthene	ug/L	10	8.8	88	45-126	
2-Fluorobiphenyl (S)	%			81	36-120	
Terphenyl-d14 (S)	%			76	29-134	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: OEXT/47082 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

METHOD BLANK: 1477170 Matrix: Water
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	11/18/14 20:28	
Fuel Oil	mg/L	ND	0.40	11/18/14 20:28	
Jet Fuel	mg/L	ND	0.40	11/18/14 20:28	
Kerosene	mg/L	ND	0.40	11/18/14 20:28	
Mineral Spirits	mg/L	ND	0.40	11/18/14 20:28	
Motor Oil	mg/L	ND	0.40	11/18/14 20:28	
TEH as Diesel No.2	mg/L	0.42	0.40	11/18/14 20:28	
n-Tetracosane (S)	%	55	20-120	11/18/14 20:28	
p-Terphenyl (S)	%	82	29-122	11/18/14 20:28	

LABORATORY CONTROL SAMPLE: 1477171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	8.3	66	60-122	
n-Tetracosane (S)	%			74	20-120	
p-Terphenyl (S)	%			72	29-122	

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QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: OEXT/47189 Analysis Method: OA2
QC Batch Method: OA2 Analysis Description: OA2 GCS
Associated Lab Samples: 60182249001, 60182249008, 60182249011, 60182249012

METHOD BLANK: 1481383 Matrix: Water
Associated Lab Samples: 60182249001, 60182249008, 60182249011, 60182249012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/L	ND	0.40	11/20/14 12:00	
Fuel Oil	mg/L	ND	0.40	11/20/14 12:00	
Jet Fuel	mg/L	ND	0.40	11/20/14 12:00	
Kerosene	mg/L	ND	0.40	11/20/14 12:00	
Mineral Spirits	mg/L	ND	0.40	11/20/14 12:00	
Motor Oil	mg/L	ND	0.40	11/20/14 12:00	
TEH as Diesel No.2	mg/L	ND	0.40	11/20/14 12:00	
n-Tetracosane (S)	%	75	20-120	11/20/14 12:00	
p-Terphenyl (S)	%	79	29-122	11/20/14 12:00	

LABORATORY CONTROL SAMPLE: 1481384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/L	12.5	10.5	84	60-122	
n-Tetracosane (S)	%			85	20-120	
p-Terphenyl (S)	%			95	29-122	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: KDHE NEODESHA
Pace Project No.: 60182249

QC Batch: WET/51478 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 60182249001, 60182249002, 60182249004, 60182249005, 60182249006, 60182249008, 60182249009, 60182249011, 60182249012

SAMPLE DUPLICATE: 1476617

Parameter	Units	60182249011 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	5	H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: KDHE NEODESHA
Pace Project No.: 60182249

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/47082

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47086

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65713

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47096

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/65722

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47117

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47186

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: OEXT/47189

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to early motor oil range. Quantitation achieved using diesel fuel as a reference standard.

B Analyte was detected in the associated method blank.

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QUALIFIERS

Project: KDHE NEODESHA
Pace Project No.: 60182249

ANALYTE QUALIFIERS

D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H2	Extraction or preparation conducted outside EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60182249001	**MW-144/GW-01**	OA2	OEXT/47082	OA2	GCSV/17955
60182249001	**MW-144/GW-01**	OA2	OEXT/47189	OA2	GCSV/17998
60182249002	**MW-163/GW-01**	OA2	OEXT/47082	OA2	GCSV/17955
60182249004	**MW-164/GW-01**	OA2	OEXT/47082	OA2	GCSV/17955
60182249005	**MW-161/GW-01**	OA2	OEXT/47082	OA2	GCSV/17955
60182249006	**DUP-03**	OA2	OEXT/47082	OA2	GCSV/17955
60182249008	**MW-173/GW-01**	OA2	OEXT/47082	OA2	GCSV/17955
60182249008	**MW-173/GW-01**	OA2	OEXT/47189	OA2	GCSV/17998
60182249009	**MW-160/GW-01**	OA2	OEXT/47082	OA2	GCSV/17955
60182249011	**MW-165/GW-01**	OA2	OEXT/47082	OA2	GCSV/17955
60182249011	**MW-165/GW-01**	OA2	OEXT/47189	OA2	GCSV/17998
60182249012	**MW-167/GW-01**	OA2	OEXT/47082	OA2	GCSV/17955
60182249012	**MW-167/GW-01**	OA2	OEXT/47189	OA2	GCSV/17998
60182249001	**MW-144/GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182249002	**MW-163/GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182249004	**MW-164/GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182249005	**MW-161/GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182249006	**DUP-03**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182249008	**MW-173/GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182249009	**MW-160/GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182249011	**MW-165/GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182249012	**MW-167/GW-01**	EPA 3010	MPRP/29791	EPA 6010	ICP/22323
60182249001	**MW-144/GW-01**	EPA 3010	MPRP/29793	EPA 6010	ICP/22324
60182249002	**MW-163/GW-01**	EPA 3010	MPRP/29793	EPA 6010	ICP/22324
60182249004	**MW-164/GW-01**	EPA 3010	MPRP/29793	EPA 6010	ICP/22324
60182249005	**MW-161/GW-01**	EPA 3010	MPRP/29793	EPA 6010	ICP/22324
60182249006	**DUP-03**	EPA 3010	MPRP/29793	EPA 6010	ICP/22324
60182249008	**MW-173/GW-01**	EPA 3010	MPRP/29793	EPA 6010	ICP/22324
60182249009	**MW-160/GW-01**	EPA 3010	MPRP/29793	EPA 6010	ICP/22324
60182249011	**MW-165/GW-01**	EPA 3010	MPRP/29793	EPA 6010	ICP/22324
60182249012	**MW-167/GW-01**	EPA 3010	MPRP/29793	EPA 6010	ICP/22324
60182249001	**MW-144/GW-01**	EPA 7470	MERP/9047	EPA 7470	MERC/9000
60182249002	**MW-163/GW-01**	EPA 7470	MERP/9047	EPA 7470	MERC/9000
60182249004	**MW-164/GW-01**	EPA 7470	MERP/9047	EPA 7470	MERC/9000
60182249005	**MW-161/GW-01**	EPA 7470	MERP/9047	EPA 7470	MERC/9000
60182249006	**DUP-03**	EPA 7470	MERP/9047	EPA 7470	MERC/9000
60182249008	**MW-173/GW-01**	EPA 7470	MERP/9047	EPA 7470	MERC/9000
60182249009	**MW-160/GW-01**	EPA 7470	MERP/9047	EPA 7470	MERC/9000
60182249011	**MW-165/GW-01**	EPA 7470	MERP/9047	EPA 7470	MERC/9000
60182249012	**MW-167/GW-01**	EPA 7470	MERP/9047	EPA 7470	MERC/9000
60182249001	**MW-144/GW-01**	EPA 7470	MERP/9049	EPA 7470	MERC/9002
60182249002	**MW-163/GW-01**	EPA 7470	MERP/9049	EPA 7470	MERC/9002
60182249004	**MW-164/GW-01**	EPA 7470	MERP/9049	EPA 7470	MERC/9002

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60182249005	**MW-161/GW-01**	EPA 7470	MERP/9049	EPA 7470	MERC/9002
60182249006	**DUP-03**	EPA 7470	MERP/9049	EPA 7470	MERC/9002
60182249008	**MW-173/GW-01**	EPA 7470	MERP/9049	EPA 7470	MERC/9002
60182249009	**MW-160/GW-01**	EPA 7470	MERP/9049	EPA 7470	MERC/9002
60182249011	**MW-165/GW-01**	EPA 7470	MERP/9049	EPA 7470	MERC/9002
60182249012	**MW-167/GW-01**	EPA 7470	MERP/9049	EPA 7470	MERC/9002
60182249001	**MW-144/GW-01**	EPA 3510	OEXT/47096	EPA 8270	MSSV/15183
60182249002	**MW-163/GW-01**	EPA 3510	OEXT/47096	EPA 8270	MSSV/15183
60182249004	**MW-164/GW-01**	EPA 3510	OEXT/47096	EPA 8270	MSSV/15183
60182249005	**MW-161/GW-01**	EPA 3510	OEXT/47096	EPA 8270	MSSV/15183
60182249006	**DUP-03**	EPA 3510	OEXT/47096	EPA 8270	MSSV/15183
60182249008	**MW-173/GW-01**	EPA 3510	OEXT/47096	EPA 8270	MSSV/15183
60182249009	**MW-160/GW-01**	EPA 3510	OEXT/47096	EPA 8270	MSSV/15183
60182249011	**MW-165/GW-01**	EPA 3510	OEXT/47096	EPA 8270	MSSV/15183
60182249012	**MW-167/GW-01**	EPA 3510	OEXT/47096	EPA 8270	MSSV/15183
60182249001	**MW-144/GW-01**	EPA 3510C	OEXT/47086	EPA 8270C by SIM	MSSV/15176
60182249001	**MW-144/GW-01**	EPA 3510C	OEXT/47186	EPA 8270C by SIM	MSSV/15207
60182249002	**MW-163/GW-01**	EPA 3510C	OEXT/47117	EPA 8270C by SIM	MSSV/15177
60182249004	**MW-164/GW-01**	EPA 3510C	OEXT/47086	EPA 8270C by SIM	MSSV/15176
60182249004	**MW-164/GW-01**	EPA 3510C	OEXT/47186	EPA 8270C by SIM	MSSV/15207
60182249005	**MW-161/GW-01**	EPA 3510C	OEXT/47086	EPA 8270C by SIM	MSSV/15176
60182249005	**MW-161/GW-01**	EPA 3510C	OEXT/47186	EPA 8270C by SIM	MSSV/15207
60182249006	**DUP-03**	EPA 3510C	OEXT/47086	EPA 8270C by SIM	MSSV/15176
60182249006	**DUP-03**	EPA 3510C	OEXT/47186	EPA 8270C by SIM	MSSV/15207
60182249008	**MW-173/GW-01**	EPA 3510C	OEXT/47086	EPA 8270C by SIM	MSSV/15176
60182249008	**MW-173/GW-01**	EPA 3510C	OEXT/47186	EPA 8270C by SIM	MSSV/15207
60182249009	**MW-160/GW-01**	EPA 3510C	OEXT/47086	EPA 8270C by SIM	MSSV/15176
60182249009	**MW-160/GW-01**	EPA 3510C	OEXT/47186	EPA 8270C by SIM	MSSV/15207
60182249011	**MW-165/GW-01**	EPA 3510C	OEXT/47086	EPA 8270C by SIM	MSSV/15176
60182249011	**MW-165/GW-01**	EPA 3510C	OEXT/47186	EPA 8270C by SIM	MSSV/15207
60182249012	**MW-167/GW-01**	EPA 3510C	OEXT/47117	EPA 8270C by SIM	MSSV/15177
60182249001	**MW-144/GW-01**	EPA 5030B/8260	MSV/65713		
60182249002	**MW-163/GW-01**	EPA 5030B/8260	MSV/65713		
60182249003	**TB-14**	EPA 5030B/8260	MSV/65713		
60182249004	**MW-164/GW-01**	EPA 5030B/8260	MSV/65821		
60182249005	**MW-161/GW-01**	EPA 5030B/8260	MSV/65713		
60182249006	**DUP-03**	EPA 5030B/8260	MSV/65713		
60182249007	**TB-15**	EPA 5030B/8260	MSV/65713		
60182249008	**MW-173/GW-01**	EPA 5030B/8260	MSV/65713		

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KDHE NEODESHA
Pace Project No.: 60182249

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60182249009	**MW-160/GW-01**	EPA 5030B/8260	MSV/65713		
60182249010	**TB-16**	EPA 5030B/8260	MSV/65713		
60182249011	**MW-165/GW-01**	EPA 5030B/8260	MSV/65713		
60182249012	**MW-167/GW-01**	EPA 5030B/8260	MSV/65713		
60182249013	**TB-13**	EPA 5030B/8260	MSV/65713		
60182249001	**MW-144/GW-01**	EPA 8260/OA1	MSV/65722		
60182249002	**MW-163/GW-01**	EPA 8260/OA1	MSV/65722		
60182249003	**TB-14**	EPA 8260/OA1	MSV/65722		
60182249004	**MW-164/GW-01**	EPA 8260/OA1	MSV/65804		
60182249005	**MW-161/GW-01**	EPA 8260/OA1	MSV/65722		
60182249006	**DUP-03**	EPA 8260/OA1	MSV/65722		
60182249007	**TB-15**	EPA 8260/OA1	MSV/65722		
60182249008	**MW-173/GW-01**	EPA 8260/OA1	MSV/65722		
60182249009	**MW-160/GW-01**	EPA 8260/OA1	MSV/65722		
60182249010	**TB-16**	EPA 8260/OA1	MSV/65722		
60182249011	**MW-165/GW-01**	EPA 8260/OA1	MSV/65722		
60182249012	**MW-167/GW-01**	EPA 8260/OA1	MSV/65722		
60182249013	**TB-13**	EPA 8260/OA1	MSV/65722		
60182249001	**MW-144/GW-01**	SM 4500-H+B	WET/51478		
60182249002	**MW-163/GW-01**	SM 4500-H+B	WET/51478		
60182249004	**MW-164/GW-01**	SM 4500-H+B	WET/51478		
60182249005	**MW-161/GW-01**	SM 4500-H+B	WET/51478		
60182249006	**DUP-03**	SM 4500-H+B	WET/51478		
60182249008	**MW-173/GW-01**	SM 4500-H+B	WET/51478		
60182249009	**MW-160/GW-01**	SM 4500-H+B	WET/51478		
60182249011	**MW-165/GW-01**	SM 4500-H+B	WET/51478		
60182249012	**MW-167/GW-01**	SM 4500-H+B	WET/51478		

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www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60182249
60182249

Client Name: Burns + McDonnell

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8057 5758 1706 1641 1577 1555 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☐

Thermometer Used: (T-239) T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.2 3.4 4.8 3.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JB 11/8

Chain of Custody present:	☒Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☒Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☒Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☒Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time requested:	☐Yes	☒No	☐N/A	7.
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	
Pace containers used:	☒Yes	☐No	☐N/A	9.
Containers intact:	☒Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes	☐No	☐N/A	13.
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	Preserved one 40ml from each sample with 1 ml HNO_3 initial pH 6.0 Final pH 2.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes	☐No	☐N/A	14.
Exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): Covered	☒Yes	☐No	☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes	☒No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒N/A	17. List State: KS

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 11/10/14

Burns & McDonnell
SINCE 1898
021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LORET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No: 601822249
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KDHE NEODESHA

	Sample Number				Sample Event		Sample Depth (in feet)		Sample Collected		Sample Type / Matrix			Number of Containers	Analysis						Remarks
	Group or SWMU Name	Sample Point	Sample Designator		Round	Year	From	To	Date	Time	Liquid	Solid	Gas		VOC 8260 / GRO CAL	SVOC 8270	RCRA-8 - FILTERED	PAH 8270 SIM	CA2		
✓	MW-144	GW-01	(2) AG4H	(4) AG4H	DP3F 2.0	(3) OG4H			11/7/14	0325	X			10	X	X	X	X	X		FIELD FILTERED 001
✓	MW-163	GW-01	↓	↓	↓	↓			11/7/14	0925	X			10	X	X	X	X	X		FIELD FILTERED 002
✓	TB-14		(2) DG4H						11/7/14	—	X			2	X						003

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. — Date/Time 11/7/14 1600

Received By (signature): — Date/Time 11/8 0810

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 3.4

Relinquished By (signature): 2. — Date/Time

Received By (signature): — Date/Time

Laboratory Comments:

Burns & McDonnell
SINCE 1898
021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LORET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No: 00182249
Lab. Reference No. or Episode No.:

Project Number: 30435

Client Name: KDHE NEODESHA

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Sample Type: Matrix: Liquid	Sample Type: Matrix: Solid	Sample Type: Matrix: Gas	Number of Containers	Analysis: VOC 8260 (GRO DAL)	Analysis: SVOC 8270	Analysis: RCRA-3	Analysis: PAH 8270 SIM	Analysis: DA2		Remarks
MW-164	GW-01	(2)AG4U (4)AG4U	DP3F 2.0	(3)DG4H			11/7/14	1114	X			10	X	X	X	X	X		FIELD FILTERED 004
MW-161	GW-01	↓ ↓	↓	↓			11/7/14	1235	X			10	X	X	X	X	X		FIELD FILTERED 005
DUP-03		↓ ↓	↓	↓			11/7/14	—	X			10	X	X	X	X	X		FIELD FILTERED 006
TB-15		(2)DG4H					11/7/14	—	X			2							007

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. — Date/Time 11/7/14 1600

Received By (signature): — Date/Time 11/8 0800

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 4.8°C

Relinquished By (signature): 2. — Date/Time

Received By (signature): — Date/Time

Laboratory Comments:

Burns & McDonnell SINCE 1898

021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LORET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No: 60182249
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KDHE NEODESHA

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Matrix: Liquid	Matrix: Solid	Matrix: Gas	Number of Containers	Analysis: VOC 8260/GRO CAL	Analysis: PAH 8270 SIM	Analysis: RCRA-8 - FILTERED	Analysis: SVOC 8270	Analysis: OA2		Remarks
MW-173	GW-01	(2) Acrm	(4) Acrm	BPZ-2.0	(3) Oxan			11/7/14	1400	X			10	X	X	X	X	X	FIELD FILTERED 008
MW-160	GW-01	↓	↓	↓	↓			11/7/14	1517	X			10	X	X	X	X	X	FIELD FILTERED 009
TB-16		(2) Oxan						11/7/14	–	X			2	X					010

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. — Date/Time 11/7/14 1620

Received By (signature): Pace — Date/Time 11/8 0810

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 3.4

Relinquished By (signature): 2. — Date/Time

Received By (signature): — Date/Time

Laboratory Comments:

Burns & McDonnell
SINCE 1898
021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE ANALYTICAL SERVICES
Address: 9608 LOIRET BLVD
City/State/Zip: LENEXA, KS 66219
Telephone: 913-599-5665

Document Control No: 60182249
Lab. Reference No. or Episode No.:

Project Number: 80435

Client Name: KOHE NEODESHA

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Sample Type: Matrix: Liquid	Sample Type: Matrix: Solid	Sample Type: Matrix: Gas	Number of Containers	Analysis: VOC 8260 / GRO OAL	Analysis: SVOC ~~8260~~ 8270	Analysis: RCRA-8 - FILTERED	Analysis: PAH 8270 SIM	Analysis: OA2		Remarks
MW-165	GW-01	(2)AGLH (1)AFGH	BP3F 2.0	(3)DGAH			11/6/14	1723	X			10	X	X	X	X	X		FIELD FILTERED 011
MW-167	GW-01	↓ ↓	↓	↓			11/6/14	1354	X			10	X	X	X	X	X		FIELD FILTERED 012
TB-13		(2)DGAH					11/6/14	—	X			2	X						013

Sampler (signature):

Sampler (signature):

Special Instructions:

Relinquished By (signature):	Date/Time	Received By (signature):	Date/Time
1.	11/7/14 1600	Pace	11/8 0810
2.			

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 2.2

Laboratory Comments:

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249001 Client Smp ID: MW-144/GW-01
Operator : PRG Sample Date: 07-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 03:43

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 526-73-8	Benzene, 1,2,3-trimethyl-	6.973	12	NJ
2. 95-93-2	Benzene, 1,2,4,5-tetramethy	7.747	9.02	NJ
3. 767-99-7	Benzene, (1-methyl-1-propen	8.038	20	NJ
4. 119-64-2	Naphthalene, 1,2,3,4-tetrah	8.155	15	NJ
5. 4489-84-3	Benzene, (3-methyl-2-buteny	8.299	10	NJ
6. 3877-19-8	Naphthalene, 1,2,3,4-tetrah	8.542	10	NJ
7. 4489-84-3	Benzene, (3-methyl-2-buteny	8.607	11	NJ
8. 1680-51-9	Naphthalene, 1,2,3,4-tetrah	8.881	25	NJ
9. 2809-64-5	Naphthalene, 1,2,3,4-tetrah	9.108	15	NJ
10. 13065-07-1	Naphthalene, 1,2,3,4-tetrah	9.230	9.32	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249002 Client Smp ID: MW-163/GW-01
Operator : PRG Sample Date: 07-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 05:53

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 96-37-7	Cyclopentane, methyl-	2.517	420	NJ__
2. 19341-98-1	Cyclobutane, 1,2-diethyl-,	3.248	350	NJ__
3. 95-93-2	Benzene, 1,2,4,5-tetramethy	8.034	600	NJ__
4. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-	8.370	310	NJ__
5. 1075-22-5	1H-Indene, 2,3-dihydro-5,6-	8.867	250	NJ__

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249003 Client Smp ID: TB-14
Operator : PRG Sample Date: 07-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 00:46

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249004X5 Client Smp ID: MW-164/GW-01
Operator : PRG Sample Date: 07-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 18-NOV-2014 15:08

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 78-78-4	Butane, 2-methyl-	1.214	440	NJ
2. 109-66-0	Pentane	1.330	280	NJ
3. 110-83-8	Cyclohexene	3.243	250	NJ
4. 822-50-4	Cyclopentane, 1,2-dimethyl-	3.281	250	NJ
5. 496-11-7	Indane	7.098	310	NJ
6. 874-41-9	Benzene, 1-ethyl-2,4-dimeth	7.416	150	NJ
7. 767-58-8	Indan, 1-methyl-	7.493	280	NJ
8. 2039-89-6	Benzene, 2-ethenyl-1,4-dime	8.014	570	NJ
9. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-	8.342	130	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249005 Client Smp ID: MW-161/GW-01
Operator : PRG Sample Date: 07-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 05:20

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 96-37-7	Cyclopentane, methyl-	2.516	130	NJ
2. 496-11-7	Indane	7.108	170	NJ
3. 27133-93-3	2,3-Dihydro-1-methylindene	7.511	160	NJ
4. 824-22-6	1H-Indene, 2,3-dihydro-4-me	8.036	320	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249006 Client Smp ID: DUP-03
Operator : PRG Sample Date: 07-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 05:37

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 96-37-7	Cyclopentane, methyl-	2.518	230	NJ
2. 2597-49-1	Cyclobutane, ethenyl-	3.210	100	NJ
3. 300-57-2	Benzene, 2-propenyl-	7.108	190	NJ
4. 874-41-9	Benzene, 1-ethyl-2,4-dimeth	7.433	100	NJ
5. 767-58-8	Indan, 1-methyl-	7.507	190	NJ
6. 2039-89-6	Benzene, 2-ethenyl-1,4-dime	8.036	360	NJ
7. 6682-71-9	1H-Indene, 2,3-dihydro-4,7-	8.368	130	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249007 Client Smp ID: TB-15
Operator : PRG Sample Date: 07-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 01:02

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249008 Client Smp ID: MW-173/GW-01
Operator : PRG Sample Date: 07-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 03:59

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 873-49-4	Benzene, cyclopropyl-	7.108	33	NJ__
2. 874-41-9	Benzene, 1-ethyl-2,4-dimeth	7.435	30	NJ__
3. 767-58-8	Indan, 1-methyl-	7.511	40	NJ__
4. 95-93-2	Benzene, 1,2,4,5-tetramethy	8.036	100	NJ__
5. 119-64-2	Naphthalene, 1,2,3,4-tetrah	8.153	22	NJ__
6. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-	8.301	22	NJ__
7. 1559-81-5	Naphthalene, 1,2,3,4-tetrah	8.370	31	NJ__
8. 6682-71-9	1H-Indene, 2,3-dihydro-4,7-	8.867	28	NJ__
9. 575-37-1	Naphthalene, 1,7-dimethyl-	9.974	26	NJ__
10. 581-42-0	Naphthalene, 2,6-dimethyl-	10.077	26	NJ__

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249009 Client Smp ID: MW-160/GW-01
Operator : PRG Sample Date: 07-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 04:48

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 107-83-5	Pentane, 2-methyl-	1.809	56	NJ
2. 2597-49-1	Cyclobutane, ethenyl-	3.211	110	NJ
3. 822-50-4	Cyclopentane, 1,2-dimethyl-	3.251	79	NJ
4. 496-11-7	Indane	7.110	180	NJ
5. 933-98-2	Benzene, 1-ethyl-2,3-dimeth	7.436	82	NJ
6. 27133-93-3	2,3-Dihydro-1-methylindene	7.511	150	NJ
7. 2039-89-6	Benzene, 2-ethenyl-1,4-dime	7.928	64	NJ
8. 767-99-7	Benzene, (1-methyl-1-propen	8.038	280	NJ
9. 119-64-2	Naphthalene, 1,2,3,4-tetrah	8.155	65	NJ
10. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-	8.370	63	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249010 Client Smp ID: TB-16
Operator : PRG Sample Date: 07-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 01:19

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249011 Client Smp ID: MW-165/GW-01
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 04:15

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 96-37-7	Cyclopentane, methyl-	2.516	52	NJ__
2. 2452-99-5	Cyclopentane, 1,2-dimethyl-	3.249	36	NJ__
3. 873-49-4	Benzene, cyclopropyl-	7.110	96	NJ__
4. 99-87-6	Benzene, 1-methyl-4-(1-meth	7.434	110	NJ__
5. 27133-93-3	2,3-Dihydro-1-methylindene	7.511	100	NJ__
6. 99-87-6	Benzene, 1-methyl-4-(1-meth	8.038	220	NJ__
7. 119-64-2	Naphthalene, 1,2,3,4-tetrah	8.153	87	NJ__
8. 1075-22-5	1H-Indene, 2,3-dihydro-5,6-	8.297	38	NJ__
9. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-	8.370	38	NJ__
10. 2809-64-5	Naphthalene, 1,2,3,4-tetrah	8.881	45	NJ__

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249012 Client Smp ID: MW-167/GW-01
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 04:32

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 78-78-4	Butane, 2-methyl-	1.239	33	NJ
2. 2532-58-3	Cyclopentane, 1,3-dimethyl-	3.214	33	NJ
3. 637-50-3	Benzene, 1-propenyl-	7.110	46	NJ
4. 874-41-9	Benzene, 1-ethyl-2,4-dimeth	7.436	30	NJ
5. 27133-93-3	2,3-Dihydro-1-methylindene	7.511	52	NJ
6. 824-22-6	1H-Indene, 2,3-dihydro-4-me	7.928	33	NJ
7. 2039-89-6	Benzene, 2-ethenyl-1,4-dime	8.040	130	NJ
8. 17059-48-2	1H-Indene, 2,3-dihydro-1,6-	8.371	41	NJ
9. 6682-71-9	1H-Indene, 2,3-dihydro-4,7-	8.867	31	NJ
10. 575-37-1	Naphthalene, 1,7-dimethyl-	9.974	30	NJ

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Burns and McDonnell_08-NOV-2014 08:10 Client SDG: 6018224
Lab Smp Id: 60182249013 Client Smp ID: TB-13
Operator : PRG Sample Date: 06-NOV-2014
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:08-NOV-2014 08:10
Analysis Type: VOA Level: LOW
Inj Date: 13-NOV-2014 01:35

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1480543
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 18-NOV-2014 10:00

Client SDG: SDGa04284

Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 540-54-5	Propane, 1-chloro-	0.770	12	NJ__

Pace Analytical Services, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 1477499
Operator : PRG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 13-NOV-2014 00:30

Client SDG: 60MSV1-111214b
Client Smp ID: MB
Sample Date:
Sample Point:
Date Received:12-NOV-2014 11:36
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q