ALS Group USA, Corp

Date: 19-Jul-16

Client: CH2MHill
Project: Keystone
Work Order: **16061392**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
16061392-01	KC-MW-102-S-062216	Groundwater		6/22/2016 13:05	6/23/2016 09:30	☐
16061392-02	KC-MW-104-S-062216	Groundwater		6/22/2016 11:05	6/23/2016 09:30	☐
16061392-03	KC-MW-105-S-062216	Groundwater		6/22/2016 13:55	6/23/2016 09:30	☐
16061392-04	KC-MW-106-S-062216	Groundwater		6/22/2016 11:51	6/23/2016 09:30	☐
16061392-05	KC-FD-001-062216	Groundwater		6/22/2016 11:56	6/23/2016 09:30	☐
16061392-06	KC-MW-107-S-062216	Groundwater		6/22/2016 16:15	6/23/2016 09:30	☐
16061392-07	KC-LW-MW-6-062216	Groundwater		6/22/2016 14:30	6/23/2016 09:30	☐
16061392-08	KC-LW-MW-6D-062216	Groundwater		6/22/2016 17:00	6/23/2016 09:30	☐
16061392-09	KC-TB-002-62216	Water		6/22/2016 08:00	6/23/2016 09:30	☐
16061392-10	KC-EB-001-062216	Water		6/22/2016 14:50	6/23/2016 09:30	☐

ALS Group USA, Corp

Date: 19-Jul-16

Client: CH2MHill
Project: Keystone
Work Order: 16061392

Case Narrative

Samples for the above noted Work Order were received on 06/23/2016. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

Batch R190490a, Method VOC_8260_W, Sample 16061392-01A MS: The MS recovery was above the upper control limit for 1,2-Dibromoethane. However, the MSD recovery and the RPD between the MS and MSD were within control limits. No qualification is required.

Batch R190490a, Method VOC_8260_W, Sample VLCSW1-160628: The LCS recovery was above the upper control limit for 1,2-Dibromoethane. All the sample results in the batch were non-detect. No qualification is required.

1,4-Dioxane analysis performed by ALS Kelso laboratory.

ALS Group USA, Corp

Date: 19-Jul-16

Client: CH2MHill
Project: Keystone
WorkOrder: **16061392**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter
as noted	
mg/L	Milligrams per Liter

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-102-S-062216
Collection Date: 6/22/2016 01:05 PM

Work Order: 16061392
Lab ID: 16061392-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3005A / 6/24/16		Analyst: **RH**
Iron	**0.53**		**0.0046**	**0.080**	**mg/L**	1	6/25/2016 06:35
METALS BY ICP-MS (DISSOLVED)		Method:	**SW6020A**				Analyst: **RH**
Iron	**0.34**		**0.0046**	**0.080**	**mg/L**	1	6/28/2016 22:02
SUBCONTRACTED ANALYSES		Method:	**SUBCONTRACT**				Analyst: **ALS**
Subcontracted Analyses	**See attached**		**0**		**as noted**	1	7/19/2016
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260B**				Analyst: **BG**
1,1,1-Trichloroethane	U		0.36	1.0	µg/L	1	6/29/2016 07:51
1,1,2,2-Tetrachloroethane	U		0.19	1.0	µg/L	1	6/29/2016 07:51
1,1,2-Trichloroethane	U		0.40	1.0	µg/L	1	6/29/2016 07:51
1,1,2-Trichlorotrifluoroethane	U		0.42	1.0	µg/L	1	6/29/2016 07:51
1,1-Dichloroethane	U		0.31	1.0	µg/L	1	6/29/2016 07:51
1,1-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 07:51
1,2,3-Trichlorobenzene	U		0.17	1.0	µg/L	1	6/29/2016 07:51
1,2,4-Trichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 07:51
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	6/29/2016 07:51
1,2-Dibromo-3-chloropropane	U		0.97	1.0	µg/L	1	6/29/2016 07:51
1,2-Dibromoethane	U		0.98	1.0	µg/L	1	6/29/2016 07:51
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	6/29/2016 07:51
1,2-Dichloroethane	U		0.17	1.0	µg/L	1	6/29/2016 07:51
1,2-Dichloropropane	U		0.25	1.0	µg/L	1	6/29/2016 07:51
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	6/29/2016 07:51
1,3-Dichlorobenzene	U		0.29	1.0	µg/L	1	6/29/2016 07:51
1,4-Dichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 07:51
2-Butanone	U		0.58	5.0	µg/L	1	6/29/2016 07:51
2-Hexanone	U		0.13	5.0	µg/L	1	6/29/2016 07:51
4-Methyl-2-pentanone	U		0.11	1.0	µg/L	1	6/29/2016 07:51
Acetone	U		0.92	10	µg/L	1	6/29/2016 07:51
Benzene	U		0.30	1.0	µg/L	1	6/29/2016 07:51
Bromochloromethane	U		0.20	1.0	µg/L	1	6/29/2016 07:51
Bromodichloromethane	U		0.23	1.0	µg/L	1	6/29/2016 07:51
Bromoform	U		0.77	1.0	µg/L	1	6/29/2016 07:51
Bromomethane	U		0.38	1.0	µg/L	1	6/29/2016 07:51
Carbon disulfide	U		0.23	1.0	µg/L	1	6/29/2016 07:51
Carbon tetrachloride	U		0.31	1.0	µg/L	1	6/29/2016 07:51
Chlorobenzene	U		0.27	1.0	µg/L	1	6/29/2016 07:51
Chloroethane	U		0.29	1.0	µg/L	1	6/29/2016 07:51
Chloroform	U		0.26	1.0	µg/L	1	6/29/2016 07:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-102-S-062216
Collection Date: 6/22/2016 01:05 PM

Work Order: 16061392
Lab ID: 16061392-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.17	1.0	µg/L	1	6/29/2016 07:51
cis-1,2-Dichloroethene	**1.4**		**0.25**	**1.0**	**µg/L**	1	6/29/2016 07:51
cis-1,3-Dichloropropene	U		0.39	1.0	µg/L	1	6/29/2016 07:51
Cyclohexane	U		0.22	1.0	µg/L	1	6/29/2016 07:51
Dibromochloromethane	U		0.38	1.0	µg/L	1	6/29/2016 07:51
Dichlorodifluoromethane	U		0.13	1.0	µg/L	1	6/29/2016 07:51
Ethylbenzene	U		0.40	1.0	µg/L	1	6/29/2016 07:51
Isopropylbenzene	U		0.31	1.0	µg/L	1	6/29/2016 07:51
Methyl acetate	U		0.23	2.0	µg/L	1	6/29/2016 07:51
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	6/29/2016 07:51
Methylcyclohexane	U		0.27	1.0	µg/L	1	6/29/2016 07:51
Methylene chloride	U		0.56	5.0	µg/L	1	6/29/2016 07:51
Styrene	U		0.24	1.0	µg/L	1	6/29/2016 07:51
Tetrachloroethene	U		0.27	1.0	µg/L	1	6/29/2016 07:51
Toluene	U		0.37	1.0	µg/L	1	6/29/2016 07:51
trans-1,2-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 07:51
trans-1,3-Dichloropropene	U		0.82	1.0	µg/L	1	6/29/2016 07:51
Trichloroethene	U		0.30	1.0	µg/L	1	6/29/2016 07:51
Trichlorofluoromethane	U		0.20	1.0	µg/L	1	6/29/2016 07:51
Vinyl chloride	U		0.20	1.0	µg/L	1	6/29/2016 07:51
Xylenes, Total	U		1.3	3.0	µg/L	1	6/29/2016 07:51
Surr: 1,2-Dichloroethane-d4	*101*			*75-120*	*%REC*	1	6/29/2016 07:51
Surr: 4-Bromofluorobenzene	*98.8*			*80-110*	*%REC*	1	6/29/2016 07:51
Surr: Dibromofluoromethane	*98.2*			*85-115*	*%REC*	1	6/29/2016 07:51
Surr: Toluene-d8	*99.3*			*85-110*	*%REC*	1	6/29/2016 07:51
ALKALINITY			Method: **A2320 B-97**				Analyst: **ED**
Alkalinity, Total (as CaCO3)	**300**	x	**2.6**	**10**	**mg/L**	1	6/27/2016 12:20
ANIONS BY ION CHROMATOGRAPHY			Method: **SW9056A**				Analyst: **EE**
Chloride	**130**		**2.9**	**10**	**mg/L**	10	6/24/2016 17:02
Sulfate	**54**		**4.1**	**10**	**mg/L**	10	6/24/2016 17:02
NITROGEN, NITRITE			Method: **A4500-NO2 B**				Analyst: **LW**
Nitrogen, Nitrite	**0.016**	J	**0.0010**	**0.020**	**mg/L**	1	6/23/2016 13:30
NITROGEN, NITRATE			Method: **E353.2 R2.0**				Analyst: **JJG**
Nitrogen, Nitrate	**0.62**		**0.0090**	**0.020**	**mg/L**	1	6/24/2016 12:32
SULFIDE			Method: **SW9034**				Analyst: **TVD**
Sulfide	U		0.13	1.0	mg/L	1	6/27/2016 15:41
ORGANIC CARBON, TOTAL			Method: **SW9060A**				Analyst: **JJG**

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-102-S-062216
Collection Date: 6/22/2016 01:05 PM

Work Order: 16061392
Lab ID: 16061392-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Organic Carbon, Total	**1.6**		**0.039**	**0.50**	**mg/L**	1	6/27/2016 13:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-104-S-062216
Collection Date: 6/22/2016 11:05 AM

Work Order: 16061392
Lab ID: 16061392-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			Method: **SW6020A**		Prep: SW3005A / 6/24/16		Analyst: **RH**
Iron	**0.18**		**0.0046**	**0.080**	**mg/L**	1	6/25/2016 06:40
METALS BY ICP-MS (DISSOLVED)			Method: **SW6020A**				Analyst: **RH**
Iron	**0.044**	J	**0.0046**	**0.080**	**mg/L**	1	6/28/2016 22:19
SUBCONTRACTED ANALYSES			Method: **SUBCONTRACT**				Analyst: **ALS**
Subcontracted Analyses	**See attached**		**0**		**as noted**	1	7/19/2016
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260B**				Analyst: **BG**
1,1,1-Trichloroethane	U		0.36	1.0	µg/L	1	6/29/2016 08:17
1,1,2,2-Tetrachloroethane	U		0.19	1.0	µg/L	1	6/29/2016 08:17
1,1,2-Trichloroethane	U		0.40	1.0	µg/L	1	6/29/2016 08:17
1,1,2-Trichlorotrifluoroethane	U		0.42	1.0	µg/L	1	6/29/2016 08:17
1,1-Dichloroethane	U		0.31	1.0	µg/L	1	6/29/2016 08:17
1,1-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 08:17
1,2,3-Trichlorobenzene	U		0.17	1.0	µg/L	1	6/29/2016 08:17
1,2,4-Trichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 08:17
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	6/29/2016 08:17
1,2-Dibromo-3-chloropropane	U		0.97	1.0	µg/L	1	6/29/2016 08:17
1,2-Dibromoethane	U		0.98	1.0	µg/L	1	6/29/2016 08:17
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	6/29/2016 08:17
1,2-Dichloroethane	U		0.17	1.0	µg/L	1	6/29/2016 08:17
1,2-Dichloropropane	U		0.25	1.0	µg/L	1	6/29/2016 08:17
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	6/29/2016 08:17
1,3-Dichlorobenzene	U		0.29	1.0	µg/L	1	6/29/2016 08:17
1,4-Dichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 08:17
2-Butanone	U		0.58	5.0	µg/L	1	6/29/2016 08:17
2-Hexanone	U		0.13	5.0	µg/L	1	6/29/2016 08:17
4-Methyl-2-pentanone	U		0.11	1.0	µg/L	1	6/29/2016 08:17
Acetone	U		0.92	10	µg/L	1	6/29/2016 08:17
Benzene	U		0.30	1.0	µg/L	1	6/29/2016 08:17
Bromochloromethane	U		0.20	1.0	µg/L	1	6/29/2016 08:17
Bromodichloromethane	U		0.23	1.0	µg/L	1	6/29/2016 08:17
Bromoform	U		0.77	1.0	µg/L	1	6/29/2016 08:17
Bromomethane	U		0.38	1.0	µg/L	1	6/29/2016 08:17
Carbon disulfide	U		0.23	1.0	µg/L	1	6/29/2016 08:17
Carbon tetrachloride	U		0.31	1.0	µg/L	1	6/29/2016 08:17
Chlorobenzene	U		0.27	1.0	µg/L	1	6/29/2016 08:17
Chloroethane	U		0.29	1.0	µg/L	1	6/29/2016 08:17
Chloroform	U		0.26	1.0	µg/L	1	6/29/2016 08:17

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-104-S-062216
Collection Date: 6/22/2016 11:05 AM

Work Order: 16061392
Lab ID: 16061392-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.17	1.0	µg/L	1	6/29/2016 08:17
cis-1,2-Dichloroethene	**7.7**		**0.25**	**1.0**	**µg/L**	1	6/29/2016 08:17
cis-1,3-Dichloropropene	U		0.39	1.0	µg/L	1	6/29/2016 08:17
Cyclohexane	U		0.22	1.0	µg/L	1	6/29/2016 08:17
Dibromochloromethane	U		0.38	1.0	µg/L	1	6/29/2016 08:17
Dichlorodifluoromethane	U		0.13	1.0	µg/L	1	6/29/2016 08:17
Ethylbenzene	U		0.40	1.0	µg/L	1	6/29/2016 08:17
Isopropylbenzene	U		0.31	1.0	µg/L	1	6/29/2016 08:17
Methyl acetate	U		0.23	2.0	µg/L	1	6/29/2016 08:17
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	6/29/2016 08:17
Methylcyclohexane	U		0.27	1.0	µg/L	1	6/29/2016 08:17
Methylene chloride	U		0.56	5.0	µg/L	1	6/29/2016 08:17
Styrene	U		0.24	1.0	µg/L	1	6/29/2016 08:17
Tetrachloroethene	**14**		**0.27**	**1.0**	**µg/L**	1	6/29/2016 08:17
Toluene	U		0.37	1.0	µg/L	1	6/29/2016 08:17
trans-1,2-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 08:17
trans-1,3-Dichloropropene	U		0.82	1.0	µg/L	1	6/29/2016 08:17
Trichloroethene	**3.1**		**0.30**	**1.0**	**µg/L**	1	6/29/2016 08:17
Trichlorofluoromethane	U		0.20	1.0	µg/L	1	6/29/2016 08:17
Vinyl chloride	U		0.20	1.0	µg/L	1	6/29/2016 08:17
Xylenes, Total	U		1.3	3.0	µg/L	1	6/29/2016 08:17
Surr: 1,2-Dichloroethane-d4	*101*			*75-120*	*%REC*	1	6/29/2016 08:17
Surr: 4-Bromofluorobenzene	*100*			*80-110*	*%REC*	1	6/29/2016 08:17
Surr: Dibromofluoromethane	*99.2*			*85-115*	*%REC*	1	6/29/2016 08:17
Surr: Toluene-d8	*99.8*			*85-110*	*%REC*	1	6/29/2016 08:17
ALKALINITY			Method: **A2320 B-97**				Analyst: **ED**
Alkalinity, Total (as CaCO3)	**440**	x	**2.6**	**10**	**mg/L**	1	6/27/2016 12:20
ANIONS BY ION CHROMATOGRAPHY			Method: **SW9056A**				Analyst: **EE**
Chloride	**74**		**1.5**	**5.0**	**mg/L**	5	6/24/2016 17:22
Sulfate	**35**		**2.0**	**5.0**	**mg/L**	5	6/24/2016 17:22
NITROGEN, NITRITE			Method: **A4500-NO2 B**				Analyst: **LW**
Nitrogen, Nitrite	**0.0082**	J	**0.0010**	**0.020**	**mg/L**	1	6/23/2016 13:30
NITROGEN, NITRATE			Method: **E353.2 R2.0**				Analyst: **JJG**
Nitrogen, Nitrate	**1.3**		**0.0090**	**0.020**	**mg/L**	1	6/24/2016 12:32
SULFIDE			Method: **SW9034**				Analyst: **TVD**
Sulfide	U		0.13	1.0	mg/L	1	6/27/2016 15:41
ORGANIC CARBON, TOTAL			Method: **SW9060A**				Analyst: **JJG**

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-104-S-062216
Collection Date: 6/22/2016 11:05 AM

Work Order: 16061392
Lab ID: 16061392-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Organic Carbon, Total	**4.0**		**0.039**	**0.50**	**mg/L**	1	6/27/2016 13:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-105-S-062216
Collection Date: 6/22/2016 01:55 PM

Work Order: 16061392
Lab ID: 16061392-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3005A / 6/24/16		Analyst: **RH**
Iron	**0.77**		**0.0046**	**0.080**	**mg/L**	1	6/25/2016 06:45
METALS BY ICP-MS (DISSOLVED)		Method:	**SW6020A**				Analyst: **RH**
Iron	**0.61**		**0.0046**	**0.080**	**mg/L**	1	6/28/2016 22:24
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260B**				Analyst: **BG**
1,1,1-Trichloroethane	U		0.36	1.0	µg/L	1	6/29/2016 08:43
1,1,2,2-Tetrachloroethane	U		0.19	1.0	µg/L	1	6/29/2016 08:43
1,1,2-Trichloroethane	U		0.40	1.0	µg/L	1	6/29/2016 08:43
1,1,2-Trichlorotrifluoroethane	U		0.42	1.0	µg/L	1	6/29/2016 08:43
1,1-Dichloroethane	U		0.31	1.0	µg/L	1	6/29/2016 08:43
1,1-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 08:43
1,2,3-Trichlorobenzene	U		0.17	1.0	µg/L	1	6/29/2016 08:43
1,2,4-Trichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 08:43
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	6/29/2016 08:43
1,2-Dibromo-3-chloropropane	U		0.97	1.0	µg/L	1	6/29/2016 08:43
1,2-Dibromoethane	U		0.98	1.0	µg/L	1	6/29/2016 08:43
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	6/29/2016 08:43
1,2-Dichloroethane	U		0.17	1.0	µg/L	1	6/29/2016 08:43
1,2-Dichloropropane	U		0.25	1.0	µg/L	1	6/29/2016 08:43
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	6/29/2016 08:43
1,3-Dichlorobenzene	U		0.29	1.0	µg/L	1	6/29/2016 08:43
1,4-Dichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 08:43
2-Butanone	U		0.58	5.0	µg/L	1	6/29/2016 08:43
2-Hexanone	U		0.13	5.0	µg/L	1	6/29/2016 08:43
4-Methyl-2-pentanone	U		0.11	1.0	µg/L	1	6/29/2016 08:43
Acetone	U		0.92	10	µg/L	1	6/29/2016 08:43
Benzene	U		0.30	1.0	µg/L	1	6/29/2016 08:43
Bromochloromethane	U		0.20	1.0	µg/L	1	6/29/2016 08:43
Bromodichloromethane	U		0.23	1.0	µg/L	1	6/29/2016 08:43
Bromoform	U		0.77	1.0	µg/L	1	6/29/2016 08:43
Bromomethane	U		0.38	1.0	µg/L	1	6/29/2016 08:43
Carbon disulfide	U		0.23	1.0	µg/L	1	6/29/2016 08:43
Carbon tetrachloride	U		0.31	1.0	µg/L	1	6/29/2016 08:43
Chlorobenzene	U		0.27	1.0	µg/L	1	6/29/2016 08:43
Chloroethane	U		0.29	1.0	µg/L	1	6/29/2016 08:43
Chloroform	U		0.26	1.0	µg/L	1	6/29/2016 08:43
Chloromethane	U		0.17	1.0	µg/L	1	6/29/2016 08:43
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	6/29/2016 08:43

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-105-S-062216
Collection Date: 6/22/2016 01:55 PM

Work Order: 16061392
Lab ID: 16061392-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		0.39	1.0	µg/L	1	6/29/2016 08:43
Cyclohexane	U		0.22	1.0	µg/L	1	6/29/2016 08:43
Dibromochloromethane	U		0.38	1.0	µg/L	1	6/29/2016 08:43
Dichlorodifluoromethane	U		0.13	1.0	µg/L	1	6/29/2016 08:43
Ethylbenzene	U		0.40	1.0	µg/L	1	6/29/2016 08:43
Isopropylbenzene	U		0.31	1.0	µg/L	1	6/29/2016 08:43
Methyl acetate	U		0.23	2.0	µg/L	1	6/29/2016 08:43
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	6/29/2016 08:43
Methylcyclohexane	U		0.27	1.0	µg/L	1	6/29/2016 08:43
Methylene chloride	U		0.56	5.0	µg/L	1	6/29/2016 08:43
Styrene	U		0.24	1.0	µg/L	1	6/29/2016 08:43
Tetrachloroethene	U		0.27	1.0	µg/L	1	6/29/2016 08:43
Toluene	U		0.37	1.0	µg/L	1	6/29/2016 08:43
trans-1,2-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 08:43
trans-1,3-Dichloropropene	U		0.82	1.0	µg/L	1	6/29/2016 08:43
Trichloroethene	U		0.30	1.0	µg/L	1	6/29/2016 08:43
Trichlorofluoromethane	U		0.20	1.0	µg/L	1	6/29/2016 08:43
Vinyl chloride	U		0.20	1.0	µg/L	1	6/29/2016 08:43
Xylenes, Total	U		1.3	3.0	µg/L	1	6/29/2016 08:43
Surr: 1,2-Dichloroethane-d4	*101*			*75-120*	*%REC*	1	6/29/2016 08:43
Surr: 4-Bromofluorobenzene	*99.2*			*80-110*	*%REC*	1	6/29/2016 08:43
Surr: Dibromofluoromethane	*97.9*			*85-115*	*%REC*	1	6/29/2016 08:43
Surr: Toluene-d8	*98.2*			*85-110*	*%REC*	1	6/29/2016 08:43
ALKALINITY		Method:	**A2320 B-97**				Analyst: **ED**
Alkalinity, Total (as CaCO3)	**280**	x	**2.6**	**10**	**mg/L**	1	6/27/2016 12:20
ANIONS BY ION CHROMATOGRAPHY		Method:	**SW9056A**				Analyst: **EE**
Chloride	**200**		**5.9**	**20**	**mg/L**	20	6/24/2016 18:02
Sulfate	**36**		**2.0**	**5.0**	**mg/L**	5	6/24/2016 17:42
NITROGEN, NITRITE		Method:	**A4500-NO2 B**				Analyst: **LW**
Nitrogen, Nitrite	U		0.0010	0.020	mg/L	1	6/23/2016 13:30
NITROGEN, NITRATE		Method:	**E353.2 R2.0**				Analyst: **JJG**
Nitrogen, Nitrate	U		0.0090	0.020	mg/L	1	6/24/2016 12:32
SULFIDE		Method:	**SW9034**				Analyst: **TVD**
Sulfide	**0.30**	J	**0.13**	**1.0**	**mg/L**	1	6/27/2016 15:41
ORGANIC CARBON, TOTAL		Method:	**SW9060A**				Analyst: **JJG**
Organic Carbon, Total	**1.8**		**0.039**	**0.50**	**mg/L**	1	6/27/2016 13:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-106-S-062216
Collection Date: 6/22/2016 11:51 AM

Work Order: 16061392
Lab ID: 16061392-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			Method: **SW6020A**		Prep: SW3005A / 6/24/16		Analyst: **RH**
Iron	**0.032**	J	**0.0046**	**0.080**	**mg/L**	1	6/25/2016 06:51
METALS BY ICP-MS (DISSOLVED)			Method: **SW6020A**				Analyst: **RH**
Iron	**0.0081**	J	**0.0046**	**0.080**	**mg/L**	1	6/28/2016 22:30
SUBCONTRACTED ANALYSES			Method: **SUBCONTRACT**				Analyst: **ALS**
Subcontracted Analyses	**See attached**		**0**		**as noted**	1	7/19/2016
VOLATILE ORGANIC COMPOUNDS			Method: **SW8260B**				Analyst: **BG**
1,1,1-Trichloroethane	**5.1**		**0.36**	**1.0**	**µg/L**	1	6/29/2016 09:09
1,1,2,2-Tetrachloroethane	U		0.19	1.0	µg/L	1	6/29/2016 09:09
1,1,2-Trichloroethane	U		0.40	1.0	µg/L	1	6/29/2016 09:09
1,1,2-Trichlorotrifluoroethane	U		0.42	1.0	µg/L	1	6/29/2016 09:09
1,1-Dichloroethane	U		0.31	1.0	µg/L	1	6/29/2016 09:09
1,1-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 09:09
1,2,3-Trichlorobenzene	U		0.17	1.0	µg/L	1	6/29/2016 09:09
1,2,4-Trichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 09:09
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	6/29/2016 09:09
1,2-Dibromo-3-chloropropane	U		0.97	1.0	µg/L	1	6/29/2016 09:09
1,2-Dibromoethane	U		0.98	1.0	µg/L	1	6/29/2016 09:09
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	6/29/2016 09:09
1,2-Dichloroethane	U		0.17	1.0	µg/L	1	6/29/2016 09:09
1,2-Dichloropropane	U		0.25	1.0	µg/L	1	6/29/2016 09:09
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	6/29/2016 09:09
1,3-Dichlorobenzene	U		0.29	1.0	µg/L	1	6/29/2016 09:09
1,4-Dichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 09:09
2-Butanone	U		0.58	5.0	µg/L	1	6/29/2016 09:09
2-Hexanone	U		0.13	5.0	µg/L	1	6/29/2016 09:09
4-Methyl-2-pentanone	U		0.11	1.0	µg/L	1	6/29/2016 09:09
Acetone	U		0.92	10	µg/L	1	6/29/2016 09:09
Benzene	U		0.30	1.0	µg/L	1	6/29/2016 09:09
Bromochloromethane	U		0.20	1.0	µg/L	1	6/29/2016 09:09
Bromodichloromethane	U		0.23	1.0	µg/L	1	6/29/2016 09:09
Bromoform	U		0.77	1.0	µg/L	1	6/29/2016 09:09
Bromomethane	U		0.38	1.0	µg/L	1	6/29/2016 09:09
Carbon disulfide	U		0.23	1.0	µg/L	1	6/29/2016 09:09
Carbon tetrachloride	U		0.31	1.0	µg/L	1	6/29/2016 09:09
Chlorobenzene	U		0.27	1.0	µg/L	1	6/29/2016 09:09
Chloroethane	U		0.29	1.0	µg/L	1	6/29/2016 09:09
Chloroform	**0.84**	J	**0.26**	**1.0**	**µg/L**	1	6/29/2016 09:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-106-S-062216
Collection Date: 6/22/2016 11:51 AM

Work Order: 16061392
Lab ID: 16061392-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.17	1.0	µg/L	1	6/29/2016 09:09
cis-1,2-Dichloroethene	**5.0**		**0.25**	**1.0**	**µg/L**	1	6/29/2016 09:09
cis-1,3-Dichloropropene	U		0.39	1.0	µg/L	1	6/29/2016 09:09
Cyclohexane	U		0.22	1.0	µg/L	1	6/29/2016 09:09
Dibromochloromethane	U		0.38	1.0	µg/L	1	6/29/2016 09:09
Dichlorodifluoromethane	U		0.13	1.0	µg/L	1	6/29/2016 09:09
Ethylbenzene	U		0.40	1.0	µg/L	1	6/29/2016 09:09
Isopropylbenzene	U		0.31	1.0	µg/L	1	6/29/2016 09:09
Methyl acetate	U		0.23	2.0	µg/L	1	6/29/2016 09:09
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	6/29/2016 09:09
Methylcyclohexane	U		0.27	1.0	µg/L	1	6/29/2016 09:09
Methylene chloride	U		0.56	5.0	µg/L	1	6/29/2016 09:09
Styrene	U		0.24	1.0	µg/L	1	6/29/2016 09:09
Tetrachloroethene	**1,900**		**14**	**50**	**µg/L**	50	6/29/2016 21:21
Toluene	U		0.37	1.0	µg/L	1	6/29/2016 09:09
trans-1,2-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 09:09
trans-1,3-Dichloropropene	U		0.82	1.0	µg/L	1	6/29/2016 09:09
Trichloroethene	**73**		**0.30**	**1.0**	**µg/L**	1	6/29/2016 09:09
Trichlorofluoromethane	U		0.20	1.0	µg/L	1	6/29/2016 09:09
Vinyl chloride	U		0.20	1.0	µg/L	1	6/29/2016 09:09
Xylenes, Total	U		1.3	3.0	µg/L	1	6/29/2016 09:09
Surr: 1,2-Dichloroethane-d4	*99.5*			*75-120*	*%REC*	1	6/29/2016 09:09
Surr: 1,2-Dichloroethane-d4	*102*			*75-120*	*%REC*	50	6/29/2016 21:21
Surr: 4-Bromofluorobenzene	*99.6*			*80-110*	*%REC*	1	6/29/2016 09:09
Surr: 4-Bromofluorobenzene	*98.9*			*80-110*	*%REC*	50	6/29/2016 21:21
Surr: Dibromofluoromethane	*97.8*			*85-115*	*%REC*	1	6/29/2016 09:09
Surr: Dibromofluoromethane	*99.9*			*85-115*	*%REC*	50	6/29/2016 21:21
Surr: Toluene-d8	*97.4*			*85-110*	*%REC*	1	6/29/2016 09:09
Surr: Toluene-d8	*98.0*			*85-110*	*%REC*	50	6/29/2016 21:21
ALKALINITY		Method:	**A2320 B-97**				Analyst: **ED**
Alkalinity, Total (as CaCO3)	**260**	x	**2.6**	**10**	**mg/L**	1	6/27/2016 12:20
ANIONS BY ION CHROMATOGRAPHY		Method:	**SW9056A**				Analyst: **EE**
Chloride	**150**		**5.9**	**20**	**mg/L**	20	6/24/2016 19:23
Sulfate	**38**		**8.1**	**20**	**mg/L**	20	6/24/2016 19:23
NITROGEN, NITRITE		Method:	**A4500-NO2 B**				Analyst: **LW**
Nitrogen, Nitrite	**0.0036**	J	**0.0010**	**0.020**	**mg/L**	1	6/23/2016 13:30
NITROGEN, NITRATE		Method:	**E353.2 R2.0**				Analyst: **JJG**
Nitrogen, Nitrate	**2.3**		**0.0090**	**0.020**	**mg/L**	1	6/24/2016 12:32

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-106-S-062216
Collection Date: 6/22/2016 11:51 AM

Work Order: 16061392
Lab ID: 16061392-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SULFIDE		Method: **SW9034**					Analyst: **TVD**
Sulfide	U		0.13	1.0	mg/L	1	6/27/2016 15:41
ORGANIC CARBON, TOTAL		Method: **SW9060A**					Analyst: **JJG**
Organic Carbon, Total	**1.6**		**0.039**	**0.50**	**mg/L**	1	6/27/2016 13:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-FD-001-062216
Collection Date: 6/22/2016 11:56 AM

Work Order: 16061392
Lab ID: 16061392-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SUBCONTRACTED ANALYSES		Method:	**SUBCONTRACT**				Analyst: **ALS**
Subcontracted Analyses	**See attached**		**0**		**as noted**	1	7/19/2016
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260B**				Analyst: **BG**
1,1,1-Trichloroethane	**5.0**		**0.36**	**1.0**	**µg/L**	1	6/29/2016 09:35
1,1,2,2-Tetrachloroethane	U		0.19	1.0	µg/L	1	6/29/2016 09:35
1,1,2-Trichloroethane	U		0.40	1.0	µg/L	1	6/29/2016 09:35
1,1,2-Trichlorotrifluoroethane	U		0.42	1.0	µg/L	1	6/29/2016 09:35
1,1-Dichloroethane	U		0.31	1.0	µg/L	1	6/29/2016 09:35
1,1-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 09:35
1,2,3-Trichlorobenzene	U		0.17	1.0	µg/L	1	6/29/2016 09:35
1,2,4-Trichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 09:35
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	6/29/2016 09:35
1,2-Dibromo-3-chloropropane	U		0.97	1.0	µg/L	1	6/29/2016 09:35
1,2-Dibromoethane	U		0.98	1.0	µg/L	1	6/29/2016 09:35
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	6/29/2016 09:35
1,2-Dichloroethane	U		0.17	1.0	µg/L	1	6/29/2016 09:35
1,2-Dichloropropane	U		0.25	1.0	µg/L	1	6/29/2016 09:35
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	6/29/2016 09:35
1,3-Dichlorobenzene	U		0.29	1.0	µg/L	1	6/29/2016 09:35
1,4-Dichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 09:35
2-Butanone	U		0.58	5.0	µg/L	1	6/29/2016 09:35
2-Hexanone	U		0.13	5.0	µg/L	1	6/29/2016 09:35
4-Methyl-2-pentanone	U		0.11	1.0	µg/L	1	6/29/2016 09:35
Acetone	U		0.92	10	µg/L	1	6/29/2016 09:35
Benzene	U		0.30	1.0	µg/L	1	6/29/2016 09:35
Bromochloromethane	U		0.20	1.0	µg/L	1	6/29/2016 09:35
Bromodichloromethane	U		0.23	1.0	µg/L	1	6/29/2016 09:35
Bromoform	U		0.77	1.0	µg/L	1	6/29/2016 09:35
Bromomethane	U		0.38	1.0	µg/L	1	6/29/2016 09:35
Carbon disulfide	U		0.23	1.0	µg/L	1	6/29/2016 09:35
Carbon tetrachloride	U		0.31	1.0	µg/L	1	6/29/2016 09:35
Chlorobenzene	U		0.27	1.0	µg/L	1	6/29/2016 09:35
Chloroethane	U		0.29	1.0	µg/L	1	6/29/2016 09:35
Chloroform	**0.78**	J	**0.26**	**1.0**	**µg/L**	1	6/29/2016 09:35
Chloromethane	U		0.17	1.0	µg/L	1	6/29/2016 09:35
cis-1,2-Dichloroethene	**5.1**		**0.25**	**1.0**	**µg/L**	1	6/29/2016 09:35
cis-1,3-Dichloropropene	U		0.39	1.0	µg/L	1	6/29/2016 09:35
Cyclohexane	U		0.22	1.0	µg/L	1	6/29/2016 09:35
Dibromochloromethane	U		0.38	1.0	µg/L	1	6/29/2016 09:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-FD-001-062216
Collection Date: 6/22/2016 11:56 AM

Work Order: 16061392
Lab ID: 16061392-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dichlorodifluoromethane	U		0.13	1.0	µg/L	1	6/29/2016 09:35
Ethylbenzene	U		0.40	1.0	µg/L	1	6/29/2016 09:35
Isopropylbenzene	U		0.31	1.0	µg/L	1	6/29/2016 09:35
Methyl acetate	U		0.23	2.0	µg/L	1	6/29/2016 09:35
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	6/29/2016 09:35
Methylcyclohexane	U		0.27	1.0	µg/L	1	6/29/2016 09:35
Methylene chloride	U		0.56	5.0	µg/L	1	6/29/2016 09:35
Styrene	U		0.24	1.0	µg/L	1	6/29/2016 09:35
Tetrachloroethene	**1,900**		**14**	**50**	**µg/L**	50	6/29/2016 21:47
Toluene	U		0.37	1.0	µg/L	1	6/29/2016 09:35
trans-1,2-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 09:35
trans-1,3-Dichloropropene	U		0.82	1.0	µg/L	1	6/29/2016 09:35
Trichloroethene	**73**		**0.30**	**1.0**	**µg/L**	1	6/29/2016 09:35
Trichlorofluoromethane	U		0.20	1.0	µg/L	1	6/29/2016 09:35
Vinyl chloride	U		0.20	1.0	µg/L	1	6/29/2016 09:35
Xylenes, Total	U		1.3	3.0	µg/L	1	6/29/2016 09:35
Surr: 1,2-Dichloroethane-d4	*99.6*			*75-120*	*%REC*	1	6/29/2016 09:35
Surr: 1,2-Dichloroethane-d4	*103*			*75-120*	*%REC*	50	6/29/2016 21:47
Surr: 4-Bromofluorobenzene	*98.0*			*80-110*	*%REC*	1	6/29/2016 09:35
Surr: 4-Bromofluorobenzene	*98.6*			*80-110*	*%REC*	50	6/29/2016 21:47
Surr: Dibromofluoromethane	*99.0*			*85-115*	*%REC*	1	6/29/2016 09:35
Surr: Dibromofluoromethane	*99.4*			*85-115*	*%REC*	50	6/29/2016 21:47
Surr: Toluene-d8	*97.6*			*85-110*	*%REC*	1	6/29/2016 09:35
Surr: Toluene-d8	*98.6*			*85-110*	*%REC*	50	6/29/2016 21:47

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-107-S-062216
Collection Date: 6/22/2016 04:15 PM

Work Order: 16061392
Lab ID: 16061392-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3005A / 6/24/16		Analyst: **RH**
Iron	**0.97**		**0.0046**	**0.080**	**mg/L**	1	6/25/2016 06:56
METALS BY ICP-MS (DISSOLVED)		Method:	**SW6020A**				Analyst: **RH**
Iron	**0.51**		**0.0046**	**0.080**	**mg/L**	1	6/28/2016 22:35
SUBCONTRACTED ANALYSES		Method:	**SUBCONTRACT**				Analyst: **ALS**
Subcontracted Analyses	**See attached**		**0**		**as noted**	1	7/19/2016
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260B**				Analyst: **BG**
1,1,1-Trichloroethane	U		0.36	1.0	µg/L	1	6/29/2016 22:39
1,1,2,2-Tetrachloroethane	U		0.19	1.0	µg/L	1	6/29/2016 22:39
1,1,2-Trichloroethane	U		0.40	1.0	µg/L	1	6/29/2016 22:39
1,1,2-Trichlorotrifluoroethane	U		0.42	1.0	µg/L	1	6/29/2016 22:39
1,1-Dichloroethane	U		0.31	1.0	µg/L	1	6/29/2016 22:39
1,1-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 22:39
1,2,3-Trichlorobenzene	U		0.17	1.0	µg/L	1	6/29/2016 22:39
1,2,4-Trichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 22:39
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	6/29/2016 22:39
1,2-Dibromo-3-chloropropane	U		0.97	1.0	µg/L	1	6/29/2016 22:39
1,2-Dibromoethane	U		0.98	1.0	µg/L	1	6/29/2016 22:39
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	6/29/2016 22:39
1,2-Dichloroethane	U		0.17	1.0	µg/L	1	6/29/2016 22:39
1,2-Dichloropropane	U		0.25	1.0	µg/L	1	6/29/2016 22:39
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	6/29/2016 22:39
1,3-Dichlorobenzene	U		0.29	1.0	µg/L	1	6/29/2016 22:39
1,4-Dichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 22:39
2-Butanone	U		0.58	5.0	µg/L	1	6/29/2016 22:39
2-Hexanone	U		0.13	5.0	µg/L	1	6/29/2016 22:39
4-Methyl-2-pentanone	U		0.11	1.0	µg/L	1	6/29/2016 22:39
Acetone	U		0.92	10	µg/L	1	6/29/2016 22:39
Benzene	U		0.30	1.0	µg/L	1	6/29/2016 22:39
Bromochloromethane	U		0.20	1.0	µg/L	1	6/29/2016 22:39
Bromodichloromethane	U		0.23	1.0	µg/L	1	6/29/2016 22:39
Bromoform	U		0.77	1.0	µg/L	1	6/29/2016 22:39
Bromomethane	U		0.38	1.0	µg/L	1	6/29/2016 22:39
Carbon disulfide	U		0.23	1.0	µg/L	1	6/29/2016 22:39
Carbon tetrachloride	U		0.31	1.0	µg/L	1	6/29/2016 22:39
Chlorobenzene	U		0.27	1.0	µg/L	1	6/29/2016 22:39
Chloroethane	U		0.29	1.0	µg/L	1	6/29/2016 22:39
Chloroform	U		0.26	1.0	µg/L	1	6/29/2016 22:39

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-107-S-062216
Collection Date: 6/22/2016 04:15 PM

Work Order: 16061392
Lab ID: 16061392-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloromethane	U		0.17	1.0	µg/L	1	6/29/2016 22:39
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	6/29/2016 22:39
cis-1,3-Dichloropropene	U		0.39	1.0	µg/L	1	6/29/2016 22:39
Cyclohexane	U		0.22	1.0	µg/L	1	6/29/2016 22:39
Dibromochloromethane	U		0.38	1.0	µg/L	1	6/29/2016 22:39
Dichlorodifluoromethane	U		0.13	1.0	µg/L	1	6/29/2016 22:39
Ethylbenzene	U		0.40	1.0	µg/L	1	6/29/2016 22:39
Isopropylbenzene	U		0.31	1.0	µg/L	1	6/29/2016 22:39
Methyl acetate	U		0.23	2.0	µg/L	1	6/29/2016 22:39
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	6/29/2016 22:39
Methylcyclohexane	U		0.27	1.0	µg/L	1	6/29/2016 22:39
Methylene chloride	U		0.56	5.0	µg/L	1	6/29/2016 22:39
Styrene	U		0.24	1.0	µg/L	1	6/29/2016 22:39
Tetrachloroethene	U		0.27	1.0	µg/L	1	6/29/2016 22:39
Toluene	U		0.37	1.0	µg/L	1	6/29/2016 22:39
trans-1,2-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 22:39
trans-1,3-Dichloropropene	U		0.82	1.0	µg/L	1	6/29/2016 22:39
Trichloroethene	U		0.30	1.0	µg/L	1	6/29/2016 22:39
Trichlorofluoromethane	U		0.20	1.0	µg/L	1	6/29/2016 22:39
Vinyl chloride	U		0.20	1.0	µg/L	1	6/29/2016 22:39
Xylenes, Total	U		1.3	3.0	µg/L	1	6/29/2016 22:39
Surr: 1,2-Dichloroethane-d4	*103*			*75-120*	*%REC*	1	6/29/2016 22:39
Surr: 4-Bromofluorobenzene	*101*			*80-110*	*%REC*	1	6/29/2016 22:39
Surr: Dibromofluoromethane	*99.0*			*85-115*	*%REC*	1	6/29/2016 22:39
Surr: Toluene-d8	*99.4*			*85-110*	*%REC*	1	6/29/2016 22:39
ALKALINITY			Method: **A2320 B-97**				Analyst: **ED**
Alkalinity, Total (as CaCO3)	**280**	x	**2.6**	**10**	**mg/L**	1	6/27/2016 12:20
ANIONS BY ION CHROMATOGRAPHY			Method: **SW9056A**				Analyst: **EE**
Chloride	**150**		**5.9**	**20**	**mg/L**	20	6/24/2016 20:04
Sulfate	**23**		**8.1**	**20**	**mg/L**	20	6/24/2016 20:04
NITROGEN, NITRITE			Method: **A4500-NO2 B**				Analyst: **LW**
Nitrogen, Nitrite	U		0.0010	0.020	mg/L	1	6/23/2016 13:30
NITROGEN, NITRATE			Method: **E353.2 R2.0**				Analyst: **JJG**
Nitrogen, Nitrate	U		0.0090	0.020	mg/L	1	6/24/2016 12:32
SULFIDE			Method: **SW9034**				Analyst: **TVD**
Sulfide	U		0.13	1.0	mg/L	1	6/27/2016 15:41
ORGANIC CARBON, TOTAL			Method: **SW9060A**				Analyst: **JJG**

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-MW-107-S-062216
Collection Date: 6/22/2016 04:15 PM

Work Order: 16061392
Lab ID: 16061392-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Organic Carbon, Total	**2.1**		**0.039**	**0.50**	**mg/L**	1	6/27/2016 13:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-LW-MW-6-062216
Collection Date: 6/22/2016 02:30 PM

Work Order: 16061392
Lab ID: 16061392-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SUBCONTRACTED ANALYSES		Method:	**SUBCONTRACT**				Analyst: **ALS**
Subcontracted Analyses	**See attached**		**0**		**as noted**	1	7/19/2016
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260B**				Analyst: **BG**
1,1,1-Trichloroethane	U		0.36	1.0	µg/L	1	6/29/2016 10:26
1,1,2,2-Tetrachloroethane	U		0.19	1.0	µg/L	1	6/29/2016 10:26
1,1,2-Trichloroethane	U		0.40	1.0	µg/L	1	6/29/2016 10:26
1,1,2-Trichlorotrifluoroethane	U		0.42	1.0	µg/L	1	6/29/2016 10:26
1,1-Dichloroethane	U		0.31	1.0	µg/L	1	6/29/2016 10:26
1,1-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 10:26
1,2,3-Trichlorobenzene	U		0.17	1.0	µg/L	1	6/29/2016 10:26
1,2,4-Trichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 10:26
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	6/29/2016 10:26
1,2-Dibromo-3-chloropropane	U		0.97	1.0	µg/L	1	6/29/2016 10:26
1,2-Dibromoethane	U		0.98	1.0	µg/L	1	6/29/2016 10:26
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	6/29/2016 10:26
1,2-Dichloroethane	U		0.17	1.0	µg/L	1	6/29/2016 10:26
1,2-Dichloropropane	U		0.25	1.0	µg/L	1	6/29/2016 10:26
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	6/29/2016 10:26
1,3-Dichlorobenzene	U		0.29	1.0	µg/L	1	6/29/2016 10:26
1,4-Dichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 10:26
2-Butanone	U		0.58	5.0	µg/L	1	6/29/2016 10:26
2-Hexanone	U		0.13	5.0	µg/L	1	6/29/2016 10:26
4-Methyl-2-pentanone	U		0.11	1.0	µg/L	1	6/29/2016 10:26
Acetone	U		0.92	10	µg/L	1	6/29/2016 10:26
Benzene	U		0.30	1.0	µg/L	1	6/29/2016 10:26
Bromochloromethane	U		0.20	1.0	µg/L	1	6/29/2016 10:26
Bromodichloromethane	U		0.23	1.0	µg/L	1	6/29/2016 10:26
Bromoform	U		0.77	1.0	µg/L	1	6/29/2016 10:26
Bromomethane	U		0.38	1.0	µg/L	1	6/29/2016 10:26
Carbon disulfide	U		0.23	1.0	µg/L	1	6/29/2016 10:26
Carbon tetrachloride	U		0.31	1.0	µg/L	1	6/29/2016 10:26
Chlorobenzene	U		0.27	1.0	µg/L	1	6/29/2016 10:26
Chloroethane	U		0.29	1.0	µg/L	1	6/29/2016 10:26
Chloroform	U		0.26	1.0	µg/L	1	6/29/2016 10:26
Chloromethane	U		0.17	1.0	µg/L	1	6/29/2016 10:26
cis-1,2-Dichloroethene	**3.0**		**0.25**	**1.0**	**µg/L**	1	6/29/2016 10:26
cis-1,3-Dichloropropene	U		0.39	1.0	µg/L	1	6/29/2016 10:26
Cyclohexane	U		0.22	1.0	µg/L	1	6/29/2016 10:26
Dibromochloromethane	U		0.38	1.0	µg/L	1	6/29/2016 10:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-LW-MW-6-062216
Collection Date: 6/22/2016 02:30 PM

Work Order: 16061392
Lab ID: 16061392-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dichlorodifluoromethane	U		0.13	1.0	µg/L	1	6/29/2016 10:26
Ethylbenzene	U		0.40	1.0	µg/L	1	6/29/2016 10:26
Isopropylbenzene	U		0.31	1.0	µg/L	1	6/29/2016 10:26
Methyl acetate	U		0.23	2.0	µg/L	1	6/29/2016 10:26
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	6/29/2016 10:26
Methylcyclohexane	U		0.27	1.0	µg/L	1	6/29/2016 10:26
Methylene chloride	U		0.56	5.0	µg/L	1	6/29/2016 10:26
Styrene	U		0.24	1.0	µg/L	1	6/29/2016 10:26
Tetrachloroethene	**270**		**1.4**	**5.0**	**µg/L**	5	6/29/2016 22:13
Toluene	U		0.37	1.0	µg/L	1	6/29/2016 10:26
trans-1,2-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 10:26
trans-1,3-Dichloropropene	U		0.82	1.0	µg/L	1	6/29/2016 10:26
Trichloroethene	**16**		**0.30**	**1.0**	**µg/L**	1	6/29/2016 10:26
Trichlorofluoromethane	U		0.20	1.0	µg/L	1	6/29/2016 10:26
Vinyl chloride	U		0.20	1.0	µg/L	1	6/29/2016 10:26
Xylenes, Total	U		1.3	3.0	µg/L	1	6/29/2016 10:26
Surr: 1,2-Dichloroethane-d4	*101*			*75-120*	*%REC*	1	6/29/2016 10:26
Surr: 1,2-Dichloroethane-d4	*101*			*75-120*	*%REC*	5	6/29/2016 22:13
Surr: 4-Bromofluorobenzene	*98.0*			*80-110*	*%REC*	1	6/29/2016 10:26
Surr: 4-Bromofluorobenzene	*98.4*			*80-110*	*%REC*	5	6/29/2016 22:13
Surr: Dibromofluoromethane	*98.4*			*85-115*	*%REC*	1	6/29/2016 10:26
Surr: Dibromofluoromethane	*98.8*			*85-115*	*%REC*	5	6/29/2016 22:13
Surr: Toluene-d8	*97.8*			*85-110*	*%REC*	1	6/29/2016 10:26
Surr: Toluene-d8	*97.7*			*85-110*	*%REC*	5	6/29/2016 22:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-LW-MW-6D-062216
Collection Date: 6/22/2016 05:00 PM

Work Order: 16061392
Lab ID: 16061392-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method:	**SW6020A**		Prep: SW3005A / 6/24/16		Analyst: **RH**
Iron	**1.2**		**0.0046**	**0.080**	**mg/L**	1	6/25/2016 07:02
METALS BY ICP-MS (DISSOLVED)		Method:	**SW6020A**				Analyst: **RH**
Iron	**1.1**		**0.0046**	**0.080**	**mg/L**	1	6/28/2016 22:40
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260B**				Analyst: **BG**
1,1,1-Trichloroethane	U		0.36	1.0	µg/L	1	6/29/2016 23:04
1,1,2,2-Tetrachloroethane	U		0.19	1.0	µg/L	1	6/29/2016 23:04
1,1,2-Trichloroethane	U		0.40	1.0	µg/L	1	6/29/2016 23:04
1,1,2-Trichlorotrifluoroethane	U		0.42	1.0	µg/L	1	6/29/2016 23:04
1,1-Dichloroethane	U		0.31	1.0	µg/L	1	6/29/2016 23:04
1,1-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 23:04
1,2,3-Trichlorobenzene	U		0.17	1.0	µg/L	1	6/29/2016 23:04
1,2,4-Trichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 23:04
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	6/29/2016 23:04
1,2-Dibromo-3-chloropropane	U		0.97	1.0	µg/L	1	6/29/2016 23:04
1,2-Dibromoethane	U		0.98	1.0	µg/L	1	6/29/2016 23:04
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	6/29/2016 23:04
1,2-Dichloroethane	U		0.17	1.0	µg/L	1	6/29/2016 23:04
1,2-Dichloropropane	U		0.25	1.0	µg/L	1	6/29/2016 23:04
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	6/29/2016 23:04
1,3-Dichlorobenzene	U		0.29	1.0	µg/L	1	6/29/2016 23:04
1,4-Dichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 23:04
2-Butanone	U		0.58	5.0	µg/L	1	6/29/2016 23:04
2-Hexanone	U		0.13	5.0	µg/L	1	6/29/2016 23:04
4-Methyl-2-pentanone	U		0.11	1.0	µg/L	1	6/29/2016 23:04
Acetone	U		0.92	10	µg/L	1	6/29/2016 23:04
Benzene	U		0.30	1.0	µg/L	1	6/29/2016 23:04
Bromochloromethane	U		0.20	1.0	µg/L	1	6/29/2016 23:04
Bromodichloromethane	U		0.23	1.0	µg/L	1	6/29/2016 23:04
Bromoform	U		0.77	1.0	µg/L	1	6/29/2016 23:04
Bromomethane	U		0.38	1.0	µg/L	1	6/29/2016 23:04
Carbon disulfide	U		0.23	1.0	µg/L	1	6/29/2016 23:04
Carbon tetrachloride	U		0.31	1.0	µg/L	1	6/29/2016 23:04
Chlorobenzene	U		0.27	1.0	µg/L	1	6/29/2016 23:04
Chloroethane	U		0.29	1.0	µg/L	1	6/29/2016 23:04
Chloroform	U		0.26	1.0	µg/L	1	6/29/2016 23:04
Chloromethane	U		0.17	1.0	µg/L	1	6/29/2016 23:04
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	6/29/2016 23:04

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-LW-MW-6D-062216
Collection Date: 6/22/2016 05:00 PM

Work Order: 16061392
Lab ID: 16061392-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		0.39	1.0	µg/L	1	6/29/2016 23:04
Cyclohexane	U		0.22	1.0	µg/L	1	6/29/2016 23:04
Dibromochloromethane	U		0.38	1.0	µg/L	1	6/29/2016 23:04
Dichlorodifluoromethane	U		0.13	1.0	µg/L	1	6/29/2016 23:04
Ethylbenzene	U		0.40	1.0	µg/L	1	6/29/2016 23:04
Isopropylbenzene	U		0.31	1.0	µg/L	1	6/29/2016 23:04
Methyl acetate	U		0.23	2.0	µg/L	1	6/29/2016 23:04
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	6/29/2016 23:04
Methylcyclohexane	U		0.27	1.0	µg/L	1	6/29/2016 23:04
Methylene chloride	U		0.56	5.0	µg/L	1	6/29/2016 23:04
Styrene	U		0.24	1.0	µg/L	1	6/29/2016 23:04
Tetrachloroethene	U		0.27	1.0	µg/L	1	6/29/2016 23:04
Toluene	U		0.37	1.0	µg/L	1	6/29/2016 23:04
trans-1,2-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 23:04
trans-1,3-Dichloropropene	U		0.82	1.0	µg/L	1	6/29/2016 23:04
Trichloroethene	U		0.30	1.0	µg/L	1	6/29/2016 23:04
Trichlorofluoromethane	U		0.20	1.0	µg/L	1	6/29/2016 23:04
Vinyl chloride	U		0.20	1.0	µg/L	1	6/29/2016 23:04
Xylenes, Total	U		1.3	3.0	µg/L	1	6/29/2016 23:04
Surr: 1,2-Dichloroethane-d4	*104*			*75-120*	*%REC*	1	6/29/2016 23:04
Surr: 4-Bromofluorobenzene	*97.6*			*80-110*	*%REC*	1	6/29/2016 23:04
Surr: Dibromofluoromethane	*100*			*85-115*	*%REC*	1	6/29/2016 23:04
Surr: Toluene-d8	*97.8*			*85-110*	*%REC*	1	6/29/2016 23:04
ALKALINITY		Method:	**A2320 B-97**				Analyst: **ED**
Alkalinity, Total (as CaCO3)	**320**	x	**2.6**	**10**	**mg/L**	1	6/27/2016 12:20
ANIONS BY ION CHROMATOGRAPHY		Method:	**SW9056A**				Analyst: **EE**
Chloride	**65**		**2.9**	**10**	**mg/L**	10	6/27/2016 17:44
Sulfate	**67**		**4.1**	**10**	**mg/L**	10	6/27/2016 17:44
NITROGEN, NITRITE		Method:	**A4500-NO2 B**				Analyst: **LW**
Nitrogen, Nitrite	U		0.0010	0.020	mg/L	1	6/23/2016 13:30
NITROGEN, NITRATE		Method:	**E353.2 R2.0**				Analyst: **JJG**
Nitrogen, Nitrate	U		0.0090	0.020	mg/L	1	6/24/2016 12:32
SULFIDE		Method:	**SW9034**				Analyst: **TVD**
Sulfide	U		0.13	1.0	mg/L	1	6/27/2016 15:41
ORGANIC CARBON, TOTAL		Method:	**SW9060A**				Analyst: **JJG**
Organic Carbon, Total	**1.6**		**0.039**	**0.50**	**mg/L**	1	6/27/2016 13:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-TB-002-62216
Collection Date: 6/22/2016 08:00 AM

Work Order: 16061392
Lab ID: 16061392-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260B**					Analyst: **BG**
1,1,1-Trichloroethane	U		0.36	1.0	µg/L	1	6/29/2016 03:08
1,1,2,2-Tetrachloroethane	U		0.19	1.0	µg/L	1	6/29/2016 03:08
1,1,2-Trichloroethane	U		0.40	1.0	µg/L	1	6/29/2016 03:08
1,1,2-Trichlorotrifluoroethane	U		0.42	1.0	µg/L	1	6/29/2016 03:08
1,1-Dichloroethane	U		0.31	1.0	µg/L	1	6/29/2016 03:08
1,1-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 03:08
1,2,3-Trichlorobenzene	U		0.17	1.0	µg/L	1	6/29/2016 03:08
1,2,4-Trichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 03:08
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	6/29/2016 03:08
1,2-Dibromo-3-chloropropane	U		0.97	1.0	µg/L	1	6/29/2016 03:08
1,2-Dibromoethane	U		0.98	1.0	µg/L	1	6/29/2016 03:08
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	6/29/2016 03:08
1,2-Dichloroethane	U		0.17	1.0	µg/L	1	6/29/2016 03:08
1,2-Dichloropropane	U		0.25	1.0	µg/L	1	6/29/2016 03:08
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	6/29/2016 03:08
1,3-Dichlorobenzene	U		0.29	1.0	µg/L	1	6/29/2016 03:08
1,4-Dichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 03:08
2-Butanone	U		0.58	5.0	µg/L	1	6/29/2016 03:08
2-Hexanone	U		0.13	5.0	µg/L	1	6/29/2016 03:08
4-Methyl-2-pentanone	U		0.11	1.0	µg/L	1	6/29/2016 03:08
Acetone	U		0.92	10	µg/L	1	6/29/2016 03:08
Benzene	U		0.30	1.0	µg/L	1	6/29/2016 03:08
Bromochloromethane	U		0.20	1.0	µg/L	1	6/29/2016 03:08
Bromodichloromethane	U		0.23	1.0	µg/L	1	6/29/2016 03:08
Bromoform	U		0.77	1.0	µg/L	1	6/29/2016 03:08
Bromomethane	U		0.38	1.0	µg/L	1	6/29/2016 03:08
Carbon disulfide	U		0.23	1.0	µg/L	1	6/29/2016 03:08
Carbon tetrachloride	U		0.31	1.0	µg/L	1	6/29/2016 03:08
Chlorobenzene	U		0.27	1.0	µg/L	1	6/29/2016 03:08
Chloroethane	U		0.29	1.0	µg/L	1	6/29/2016 03:08
Chloroform	**0.81**	J	**0.26**	**1.0**	**µg/L**	1	6/29/2016 03:08
Chloromethane	U		0.17	1.0	µg/L	1	6/29/2016 03:08
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	6/29/2016 03:08
cis-1,3-Dichloropropene	U		0.39	1.0	µg/L	1	6/29/2016 03:08
Cyclohexane	U		0.22	1.0	µg/L	1	6/29/2016 03:08
Dibromochloromethane	U		0.38	1.0	µg/L	1	6/29/2016 03:08
Dichlorodifluoromethane	U		0.13	1.0	µg/L	1	6/29/2016 03:08
Ethylbenzene	U		0.40	1.0	µg/L	1	6/29/2016 03:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-TB-002-62216
Collection Date: 6/22/2016 08:00 AM

Work Order: 16061392
Lab ID: 16061392-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Isopropylbenzene	U		0.31	1.0	µg/L	1	6/29/2016 03:08
Methyl acetate	U		0.23	2.0	µg/L	1	6/29/2016 03:08
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	6/29/2016 03:08
Methylcyclohexane	U		0.27	1.0	µg/L	1	6/29/2016 03:08
Methylene chloride	**0.88**	J	**0.56**	**5.0**	**µg/L**	1	6/29/2016 03:08
Styrene	U		0.24	1.0	µg/L	1	6/29/2016 03:08
Tetrachloroethene	U		0.27	1.0	µg/L	1	6/29/2016 03:08
Toluene	U		0.37	1.0	µg/L	1	6/29/2016 03:08
trans-1,2-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 03:08
trans-1,3-Dichloropropene	U		0.82	1.0	µg/L	1	6/29/2016 03:08
Trichloroethene	U		0.30	1.0	µg/L	1	6/29/2016 03:08
Trichlorofluoromethane	U		0.20	1.0	µg/L	1	6/29/2016 03:08
Vinyl chloride	U		0.20	1.0	µg/L	1	6/29/2016 03:08
Xylenes, Total	U		1.3	3.0	µg/L	1	6/29/2016 03:08
Surr: 1,2-Dichloroethane-d4	*98.9*			*75-120*	*%REC*	1	6/29/2016 03:08
Surr: 4-Bromofluorobenzene	*98.2*			*80-110*	*%REC*	1	6/29/2016 03:08
Surr: Dibromofluoromethane	*98.6*			*85-115*	*%REC*	1	6/29/2016 03:08
Surr: Toluene-d8	*100*			*85-110*	*%REC*	1	6/29/2016 03:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-EB-001-062216
Collection Date: 6/22/2016 02:50 PM

Work Order: 16061392
Lab ID: 16061392-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260B**					Analyst: **BG**
1,1,1-Trichloroethane	U		0.36	1.0	µg/L	1	6/29/2016 03:33
1,1,2,2-Tetrachloroethane	U		0.19	1.0	µg/L	1	6/29/2016 03:33
1,1,2-Trichloroethane	U		0.40	1.0	µg/L	1	6/29/2016 03:33
1,1,2-Trichlorotrifluoroethane	U		0.42	1.0	µg/L	1	6/29/2016 03:33
1,1-Dichloroethane	U		0.31	1.0	µg/L	1	6/29/2016 03:33
1,1-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 03:33
1,2,3-Trichlorobenzene	U		0.17	1.0	µg/L	1	6/29/2016 03:33
1,2,4-Trichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 03:33
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	6/29/2016 03:33
1,2-Dibromo-3-chloropropane	U		0.97	1.0	µg/L	1	6/29/2016 03:33
1,2-Dibromoethane	U		0.98	1.0	µg/L	1	6/29/2016 03:33
1,2-Dichlorobenzene	U		0.22	1.0	µg/L	1	6/29/2016 03:33
1,2-Dichloroethane	U		0.17	1.0	µg/L	1	6/29/2016 03:33
1,2-Dichloropropane	U		0.25	1.0	µg/L	1	6/29/2016 03:33
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	6/29/2016 03:33
1,3-Dichlorobenzene	U		0.29	1.0	µg/L	1	6/29/2016 03:33
1,4-Dichlorobenzene	U		0.21	1.0	µg/L	1	6/29/2016 03:33
2-Butanone	U		0.58	5.0	µg/L	1	6/29/2016 03:33
2-Hexanone	U		0.13	5.0	µg/L	1	6/29/2016 03:33
4-Methyl-2-pentanone	U		0.11	1.0	µg/L	1	6/29/2016 03:33
Acetone	U		0.92	10	µg/L	1	6/29/2016 03:33
Benzene	U		0.30	1.0	µg/L	1	6/29/2016 03:33
Bromochloromethane	U		0.20	1.0	µg/L	1	6/29/2016 03:33
Bromodichloromethane	U		0.23	1.0	µg/L	1	6/29/2016 03:33
Bromoform	U		0.77	1.0	µg/L	1	6/29/2016 03:33
Bromomethane	U		0.38	1.0	µg/L	1	6/29/2016 03:33
Carbon disulfide	U		0.23	1.0	µg/L	1	6/29/2016 03:33
Carbon tetrachloride	U		0.31	1.0	µg/L	1	6/29/2016 03:33
Chlorobenzene	U		0.27	1.0	µg/L	1	6/29/2016 03:33
Chloroethane	U		0.29	1.0	µg/L	1	6/29/2016 03:33
Chloroform	**0.73**	J	**0.26**	**1.0**	**µg/L**	1	6/29/2016 03:33
Chloromethane	U		0.17	1.0	µg/L	1	6/29/2016 03:33
cis-1,2-Dichloroethene	U		0.25	1.0	µg/L	1	6/29/2016 03:33
cis-1,3-Dichloropropene	U		0.39	1.0	µg/L	1	6/29/2016 03:33
Cyclohexane	U		0.22	1.0	µg/L	1	6/29/2016 03:33
Dibromochloromethane	U		0.38	1.0	µg/L	1	6/29/2016 03:33
Dichlorodifluoromethane	U		0.13	1.0	µg/L	1	6/29/2016 03:33
Ethylbenzene	U		0.40	1.0	µg/L	1	6/29/2016 03:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Jul-16*

Client: CH2MHill
Project: Keystone
Sample ID: KC-EB-001-062216
Collection Date: 6/22/2016 02:50 PM

Work Order: 16061392
Lab ID: 16061392-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Isopropylbenzene	U		0.31	1.0	µg/L	1	6/29/2016 03:33
Methyl acetate	U		0.23	2.0	µg/L	1	6/29/2016 03:33
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	6/29/2016 03:33
Methylcyclohexane	U		0.27	1.0	µg/L	1	6/29/2016 03:33
Methylene chloride	U		0.56	5.0	µg/L	1	6/29/2016 03:33
Styrene	U		0.24	1.0	µg/L	1	6/29/2016 03:33
Tetrachloroethene	U		0.27	1.0	µg/L	1	6/29/2016 03:33
Toluene	U		0.37	1.0	µg/L	1	6/29/2016 03:33
trans-1,2-Dichloroethene	U		0.28	1.0	µg/L	1	6/29/2016 03:33
trans-1,3-Dichloropropene	U		0.82	1.0	µg/L	1	6/29/2016 03:33
Trichloroethene	U		0.30	1.0	µg/L	1	6/29/2016 03:33
Trichlorofluoromethane	U		0.20	1.0	µg/L	1	6/29/2016 03:33
Vinyl chloride	U		0.20	1.0	µg/L	1	6/29/2016 03:33
Xylenes, Total	U		1.3	3.0	µg/L	1	6/29/2016 03:33
Surr: 1,2-Dichloroethane-d4	*102*			*75-120*	*%REC*	1	6/29/2016 03:33
Surr: 4-Bromofluorobenzene	*99.1*			*80-110*	*%REC*	1	6/29/2016 03:33
Surr: Dibromofluoromethane	*100*			*85-115*	*%REC*	1	6/29/2016 03:33
Surr: Toluene-d8	*99.8*			*85-110*	*%REC*	1	6/29/2016 03:33

Note: See Qualifiers page for a list of qualifiers and their definitions.