



Groundwater Sample Results, Data Validation Report, and the Sample Location Report, SDG 320-24730

*Naval Air Warfare Center Weapons Division China Lake
China Lake, California*

November 2019

VALIDATA

Chemical Services, Inc.

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DATA VALIDATION SUMMARY REPORT

COMPANY: AECOM Technical Services, Inc.
SITE NAME: NAWS China Lake BGMWP, CTO 005
CONTRACTED LAB: TestAmerica, Inc.-Sacramento
PROJECT NUMBER: 60432333.1.3
QA/QC LEVELS: Level III/IV
EPA SOW/METHOD: EPA SW 846 Methods 8260B, 8260B CALUFT DOD, 8015,
EPA Methods 537M, 9056A and 9060A and Standards Methods
SM2320B and SM2540C

VALIDATION GUIDELINES: *DoD Quality Systems Manual for Environmental Laboratories
Version 5.0; Approved Laboratory SOPs, EPA National
Functional Guidelines for Organic Data Review, 2010, EPA
National Functional Guidelines for Inorganic Data Review,
2008, SW-846 Methods*

SAMPLE MATRIX: Water
TYPE OF ANALYSIS: Volatile Organic Compounds (VOC), Gasoline Range Organics (GRO), Diesel Range Organics (DRO), Perfluorinated Hydrocarbons, Anions, Alkalinity, Total Dissolved Solids (TDS) and Total Organic Carbon (TOC)

SDG NUMBER: 320-24730-1 (J24730-1)
SAMPLING DATE: December 29, 2016
REPORT DATE: March 1, 2017

SAMPLES:

Client	Lab			
<u>Sample #</u>	<u>Sample #</u>	<u>Matrix</u>	<u>VOC</u>	<u>GRO</u>
ITC02-MW20-16A	320-24730-1	Water	X	X
ITC02-MW21-16A	320-24730-2	Water	X	X
ITC02-MW12-16A	320-24730-3	Water	X	X
ITC02-MW15-16A	320-24730-4	Water	X	X
ITC44-MW16-16A	320-24730-5	Water	X	X
ETC44-MW04-16A	320-24730-6	Water	X	X
ITC44-MW17-16A	320-24730-7	Water	X	X

Client	Lab			
<u>Sample #</u>	<u>Sample #</u>	<u>Matrix</u>	<u>VOC</u>	<u>GRO</u>
JMM01-MW03-16A	320-24730-8	Water	X	X
TRIP BLANK	320-24730-9	Water	X	

Client	Lab			
<u>Sample #</u>	<u>Sample #</u>	<u>Matrix</u>	<u>DRO</u>	<u>Perfluorinated Hydrocarbons</u>
ITC02-MW20-16A	320-24730-1	Water	X	
ITC02-MW21-16A	320-24730-2	Water	X	
ITC02-MW12-16A	320-24730-3	Water	X	
ITC02-MW15-16A	320-24730-4	Water	X	
ITC44-MW16-16A	320-24730-5	Water	X	X*
ETC44-MW04-16A	320-24730-6	Water	X	X
ITC44-MW17-16A	320-24730-7	Water	X	X
JMM01-MW03-16A	320-24730-8	Water	X	

Client	Lab			
<u>Sample #</u>	<u>Sample #</u>	<u>Matrix</u>	<u>Anions</u>	<u>Alkalinity</u>
ITC02-MW20-16A	320-24730-1	Water	X	X
ITC02-MW20-16ADL	320-24730-1DL	Water	X	
ITC02-MW21-16A	320-24730-2	Water	X	X
ITC02-MW21-16ADL	320-24730-2DL	Water	X	
ITC02-MW12-16A	320-24730-3	Water	X	X
ITC02-MW12-16ADL	320-24730-3DL	Water	X	
ITC02-MW15-16A	320-24730-4	Water	X	X
ITC02-MW15-16ADL	320-24730-4DL	Water	X	
ITC44-MW16-16A	320-24730-5	Water	X	X
ITC44-MW16-16ADL1	320-24730-5DL1	Water	X	
ITC44-MW16-16ADL2	320-24730-5DL2	Water	X	
ETC44-MW04-16A	320-24730-6	Water	X	X
ETC44-MW04-16ADL1	320-24730-6DL1	Water	X	
ETC44-MW04-16ADL2	320-24730-6DL2	Water	X	
ITC44-MW17-16A	320-24730-7	Water	X	X
ITC44-MW17-16ADL1	320-24730-7DL1	Water	X	
ITC44-MW17-16ADL2	320-24730-7DL2	Water	X	
JMM01-MW03-16A	320-24730-8	Water	X	X
JMM01-MW03-16ADL	320-24730-8DL	Water	X	
ITC02-MW20-16AMD	320-24730-1MD	Water		X

Client	Lab			
<u>Sample #</u>	<u>Sample #</u>	<u>Matrix</u>	<u>TDS</u>	<u>TOC</u>
ITC02-MW20-16A	320-24730-1	Water	X	X
ITC02-MW21-16A	320-24730-2	Water	X	X

Client	Lab			
<u>Sample #</u>	<u>Sample #</u>	<u>Matrix</u>	<u>TDS</u>	<u>TOC</u>
ITC02-MW12-16A	320-24730-3	Water	X	X
ITC02-MW15-16A	320-24730-4	Water	X	X
ITC44-MW16-16A	320-24730-5	Water	X	X
ETC44-MW04-16A	320-24730-6	Water	X	X
ITC44-MW17-16A	320-24730-7	Water	X	X
JMM01-MW03-16A	320-24730-8	Water	X	X

* = denotes that the validation of the analysis for this sample was performed as a Level IV

SUFFIX CODES – DL = Dilution, MD = Matrix Duplicate, MS = Matrix Spike,
MSD = Matrix Spike Duplicate, RA = Reanalysis

PRIMARY REVIEWERS: Amy L. Hogan, Marty McGee

SECONDARY REVIEWER: Kevin C. Harmon

Data Qualifier Reference Table

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the method detection limit.	The analyte was analyzed for, but was not detected above the method detection limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
UJ	The analyte was not detected above the method detection limit. However, the associated value is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The analyte was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in meeting the Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Data Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD, r, r^2 or %D were noncompliant	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits
B	Presumed contamination from preparation (method blank)	Presumed contamination from preparation (method) blank or calibration blank
L	Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits	Laboratory Control Sample/Laboratory Control Sample Duplicate %R or RPD was not within control limits
Q	MS/MSD recovery was poor	MS/MSD recovery was poor.
E	MS/MSD or Duplicate RPD was high.	MS/MSD or Duplicate RPD or difference was high.
I	Internal standard performance was	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits
M	Instrument Performance Check (BFB or DFTPP) was noncompliant	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor	Post Digestion Spike recovery was not within control limits
V	Unusual problems found with the data that have been described in Section 2, "Data Validation Findings." The number following the asterisk (*) will indicate the section in the validation report where a description of the problem can be found.	Unusual problems found with the data that have been described in Section 2, "Data Validation Findings." The number following the asterisk (*) will indicate the section in the validation report where a description of the problem can be found.

DATA VALIDATION SUMMARY

TestAmerica, Inc.-Sacramento – 320-24730-1 – Organics & Inorganics

VOLATILE ORGANICS (VOC)

SUMMARY

I.) General:

The analyses for Volatile Organics were performed by Gas Chromatography / Mass Spectrometry (GC / MS) per SW-846 Method 8260B.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

MAJOR ISSUES

There were no Major Issues for this SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

II.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

IV.) Blanks:

Method Blanks:

There were no detections in the method blanks associated with this SDG. No data qualification was necessary.

Trip Blank:

There were no detections in the trip blank associated with this SDG. No data qualification was necessary.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VI.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory. All LCS criteria were met. No data qualification was necessary.

VII.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analysis data was not submitted for this fraction of the SDG. Data qualification based on the absence of MS /MSD data was not required. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

X.) Internal Standards Performance (ISTD):

All ISTD area count criteria were met. No data qualification was necessary.

XI.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No data qualification was necessary.

GASOLINE RANGE ORGANICS (GRO)

SUMMARY

I.) General:

The analyses for Gasoline Range Organics (GRO) were performed by Gas Chromatography / Mass Spectrometry (GC / MS) per SW-846 Method 8260B/CALUFT DOD.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

MAJOR ISSUES

There were no Major Issues for this SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

II.) GC/MS Tuning:

All GC/MS Tuning criteria were met. No data qualification was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

IV.) Blanks:

Method Blanks:

There were no detections in the method blanks associated with this fraction of the SDG. No data

qualification was necessary.

V.) Surrogate Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VI.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory. All criteria were met. No data qualification was necessary.

VII.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analysis data was not submitted for this fraction of the SDG. Data qualification based on the absence of MS/MSD data was not required. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicate samples identified as part of this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All TCL Compound Identification criteria were met. No data qualification was necessary.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No data qualification was necessary.

DIESEL RANGE ORGANICS (DRO)

SUMMARY

I.) General:

The analyses for Diesel Range Organics (DRO) were performed by Gas Chromatography per SW-846 Method 8015C for both diesel and motor oil range organics.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

II.) Instrument Performance:

All Instrument Performance criteria were met. No data qualification was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

IV.) Blanks:

Method Blanks:

There were no detections in the method blanks associated with this fraction of the SDG. No data qualification was necessary.

V.) Surrogate Recoveries:

The Percent Recovery (%R) of o-terphenyl was 47% for sample ITC02-MW15-16A, which was below the 56-125% QC limits. All positive and non-detect results for this sample were qualified as estimated (J) and (UJ).

VI.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory. All LCS criteria were met. No data qualification was necessary.

VII.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analysis data was not submitted for this fraction of the SDG. Data qualification based

on the absence of MS / MSD data was not required. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicate samples identified for this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All Compound Identification criteria were met. No data qualification was necessary.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

Due to the nature of the matrix, sample ITC02-MW15-16A was analyzed at a 2X dilution analysis, which results in elevated reporting limits. No data qualification was necessary.

PERFLUORINATED HYDROCARBONS

SUMMARY

I.) General:

The analyses for Perfluorinated Hydrocarbons were performed by Liquid Chromatography / Tandem Mass Spectroscopy per EPA Method 537M.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems observed for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

II.) Instrument Performance:

All Instrument Performance criteria were met. No data qualification was necessary.

III.) Calibration:

Initial Calibration:

All Initial Calibration criteria were met. No data qualification was necessary.

Initial Calibration Verification:

All Initial Calibration Verification criteria were met. No data qualification was necessary.

Continuing Calibration:

All Continuing Calibration criteria were met. No data qualification was necessary.

IV.) Blanks:

Method Blanks:

There were no detections in the method blanks associated with this fraction of the SDG. No data qualification was necessary.

V.) Surrogate (Isotope Dilution Summary) Recoveries:

All Surrogate Recovery criteria were met. No data qualification was necessary.

VI.) Laboratory Control Samples (LCS):

One LCS / LCSD set was analyzed by the laboratory. All LCS criteria were met. No data qualification was necessary.

VII.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analysis data was not submitted for this fraction of the SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

VIII.) Field Duplicates:

There were no field duplicate samples identified for this SDG. No data qualification was necessary.

IX.) TCL Compound Identification:

All Compound Identification criteria were met. No data qualification was necessary.

X.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

The results for the initial analysis of sample ITC44-MW17-16A exceeded the linear calibration range. A 20X dilution analysis was performed for this sample with all calibration criteria met. Based on the calibration criteria and citing professional judgment, the validator has determined that the dilution analysis results for this sample are of preferable data quality to the initial analysis results for this sample. As such, the results for the initial analysis of this sample have been rejected (R).

ANIONS

SUMMARY

I.) General:

The analyses for Anions were performed per EPA Method 9056A.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

II.) Calibration:

All Calibration criteria were met. No data qualification was necessary.

III.) Blanks:

Method and Calibration Blanks:

There were no detections reported in the associated blanks. No data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

Two LCS were analyzed by the laboratory. All LCS criteria were met. No data qualification was necessary.

V.) Matrix Spike / Matrix Duplicate (MS / MD):

MS / MD analyses were performed on SDG samples ITC02-MW20-16A and ITC44-MW16-16A. All criteria were met. No data qualification was necessary.

VII.) Field Duplicates:

There were no field duplicates identified in this SDG. No data qualification was necessary.

VIII.) Sample Result, Calculation/Transcription Verification:

The results for chloride and or sulfate in the initial analyses for the SDG samples exceeded the linear calibration range. The laboratory analyzed dilutions in the 5X to 100X range for these analytes with all calibration criteria met. The Form I submitted by the laboratory for each of the samples is a composite of the best results, so no data qualification was necessary.

ALKALINITY

SUMMARY

I.) General:

The analyses for Alkalinity were performed per EPA Method SM2320B.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

II.) Calibration:

All Calibration criteria were met. No data qualification was necessary.

III.) Blanks:

There were no detections in the associated method blanks. No data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

One LCS was analyzed by the laboratory. All LCS criteria were met. No data qualification was necessary.

V.) Duplicate Sample Analysis:

Duplicate Sample Analysis was performed on SDG sample ITC02-MW20-16A. All MD criteria were met. No data qualification was necessary.

VI.) Field Duplicates:

There were no field duplicates identified in this SDG. No data qualification was necessary.

VIII.) Sample Result, Calculation/Transcription Verification:

All Sample Result criteria were met. No data qualification was necessary.

TOTAL DISSOLVED SOLIDS

SUMMARY

I.) General:

The analyses for Total Dissolved Solids were performed per SM Method 2540C.

II.) Overall Assessment of Data:

All laboratory data were acceptable without qualifications.

MAJOR ISSUES

No major problems were observed in this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

II.) Calibration:

Calibration criteria were not required for this fraction of the SDG. No data qualification was necessary.

III.) Blanks:

Method Blanks:

Total Dissolved Solids (TDS) were reported at 21000 ug/L in method blank MB 320-144752/11, which was greater than the LOQ. Since all SDG sample results were greater than the LOQ and 5X the blank concentration, no data qualification was necessary.

IV.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analysis data was not submitted for this fraction of the SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

V.) Laboratory Control Sample (LCS):

One LCS was analyzed for this SDG. All LCS criteria were met. No data qualification was necessary.

VI.) Field Duplicates:

There were no field duplicate samples identified for this SDG. No data qualification was necessary.

VIII.) Compound Quantitation and Reported Contract Required Quantitation Limits (CRQL):

All Compound Quantitation and CRQL criteria were met. No data qualification was necessary.

TOTAL ORGANIC CARBON

SUMMARY

I.) General:

The analyses for Total Organic Carbon (TOC) were per EPA Method SM5310B.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Holding Times:

All Holding Time criteria were met. No data qualification was necessary.

II.) Calibration:

All Calibration criteria were met. No data qualification was necessary.

III.) Blanks:

Method Blanks:

There were no detections in the associated method blanks. No data qualification was necessary.

Calibration Blanks:

Total Organic Carbon (TOC) was detected in the following continuing calibration blanks:

1/6/17 @ 18:59	0.568 mg/L
1/6/17 @ 22:19	0.275 mg/L
1/7/17 @ 00:07	0.288 mg/L

Since the blank result for the first CCB was greater than one half the LOQ, the results for associated samples ITC44-MW16-16A and ETC44-MW04-16A, which were below the LOQ, were qualified as undetected (U) with the results being raised to the LOQ. No further data qualification was necessary.

IV.) Laboratory Control Samples (LCS):

Three LCS were analyzed by the laboratory. All LCS criteria were met. No data qualification was necessary.

V.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

MS / MSD analyses data was not submitted for this fraction of the SDG. Data qualification based on the absence of MS / MSD data was not required. No data qualification was necessary.

VII.) Field Duplicates:

There were no field duplicates identified in this SDG. No data qualification was necessary.

VIII.) Sample Result, Calculation/Transcription Verification:

All Sample Result criteria were met. No data qualification was necessary.

Appendix A
Qualified Form Is

Client Sample Results

Client: AECOM, Inc.

Project/Site: China Lake, Project# 60432333.1.3

TestAmerica Job ID: 320-24730-1

Client Sample ID: ITC02-MW12-16A

Lab Sample ID: 320-24730-3

Date Collected: 12/29/16 08:50

Matrix: Water

Date Received: 12/30/16 09:55

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 119	01/05/17 21:35	1	
Toluene-d8 (Surr)	103		89 - 112	01/05/17 21:35	1	

Method: 8015B DRO - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	20	J	50	16	ug/L	01/03/17 11:44	01/07/17 02:29	1	
Motor Oil Range Organics [C28-C40]	400	U	500	170	ug/L	01/03/17 11:44	01/07/17 02:29	1	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	73		56 - 125	01/03/17 11:44	01/07/17 02:29	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370	D-M	100	3.7	mg/L		01/17/17 18:17		100
Nitrate as N	0.69	D	0.25	0.11	mg/L			12/30/16 14:12	5
Nitrite as N	0.12	J D-M	0.25	0.080	mg/L			12/30/16 14:12	5
Sulfate	99	D	5.0	0.25	mg/L			12/30/16 14:12	5
Orthophosphate as P	0.75	U	1.0	0.39	mg/L			12/30/16 14:12	5

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	1300		1000	160	ug/L		01/05/17 01:52		1
Bicarbonate Alkalinity	190000		5000	5000	ug/L		01/10/17 14:05		1
Total Dissolved Solids	1000000	-B-	10000	5400	ug/L		01/03/17 13:56		1

Client Sample ID: ITC02-MW15-16A

Lab Sample ID: 320-24730-4

Date Collected: 12/29/16 09:20

Matrix: Water

Date Received: 12/30/16 09:55

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	810		50	15	ug/L		01/05/17 21:57		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		73 - 115	01/05/17 21:57		1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.40	U	1.0	0.19	ug/L		01/05/17 21:57		1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.15	ug/L		01/05/17 21:57		1
1,1,2-Trichloroethane	0.80	U	1.0	0.31	ug/L		01/05/17 21:57		1
1,1-DCA	0.40	U	1.0	0.15	ug/L		01/05/17 21:57		1
1,1-Dichlorethylene	0.40	U	1.0	0.14	ug/L		01/05/17 21:57		1
1,2-DCA	0.99	J	1.0	0.22	ug/L		01/05/17 21:57		1
1,2-Dichloropropane	0.40	U	1.0	0.15	ug/L		01/05/17 21:57		1
2-Butanone	0.80	U	2.0	0.35	ug/L		01/05/17 21:57		1
2-Hexanone	0.40	U	2.0	0.17	ug/L		01/05/17 21:57		1
4-Methyl-2-pentanone (MIBK)	0.40	U	2.0	0.18	ug/L		01/05/17 21:57		1
Acetone	2.2	J	10	2.1	ug/L		01/05/17 21:57		1
Benzene	0.16	J	1.0	0.13	ug/L		01/05/17 21:57		1

TestAmerica Sacramento

Client Sample Results

Client: AECOM, Inc.

Project/Site: China Lake, Project# 60432333.1.3

TestAmerica Job ID: 320-24730-1

Client Sample ID: ITC02-MW15-16A

Date Collected: 12/29/16 09:20

Date Received: 12/30/16 09:55

Lab Sample ID: 320-24730-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.40	U	1.0	0.14	ug/L			01/05/17 21:57	1
Bromoform	0.40	U	1.0	0.10	ug/L			01/05/17 21:57	1
Bromomethane	0.80	U	1.0	0.29	ug/L			01/05/17 21:57	1
Carbon disulfide	0.40	U	2.0	0.16	ug/L			01/05/17 21:57	1
Carbon tetrachloride	0.40	U	1.0	0.15	ug/L			01/05/17 21:57	1
Chlorobenzene	0.40	U	1.0	0.12	ug/L			01/05/17 21:57	1
Chloroethane	0.80	U	1.0	0.34	ug/L			01/05/17 21:57	1
Chloroform	0.40	U	1.0	0.12	ug/L			01/05/17 21:57	1
Chloromethane	0.80	U	1.0	0.25	ug/L			01/05/17 21:57	1
cis-1,2-Dichloroethene	0.40	U	1.0	0.10	ug/L			01/05/17 21:57	1
cis-1,3-Dichloropropene	0.80	U	1.0	0.22	ug/L			01/05/17 21:57	1
Dibromochloromethane	0.40	U	1.0	0.13	ug/L			01/05/17 21:57	1
Ethylbenzene	0.40	U	1.0	0.15	ug/L			01/05/17 21:57	1
m-Xylene & p-Xylene	0.40	U	1.0	0.18	ug/L			01/05/17 21:57	1
Methylene Chloride	0.80	U	1.0	0.35	ug/L			01/05/17 21:57	1
o-Xylene	0.40	U	1.0	0.10	ug/L			01/05/17 21:57	1
Styrene	0.40	U	1.0	0.15	ug/L			01/05/17 21:57	1
Tetrachloroethene (PCE)	0.40	U	1.0	0.15	ug/L			01/05/17 21:57	1
Toluene	0.80	U	1.0	0.25	ug/L			01/05/17 21:57	1
trans-1,2-Dichloroethene	0.40	U	1.0	0.11	ug/L			01/05/17 21:57	1
trans-1,3-Dichloropropene	0.40	U	1.0	0.15	ug/L			01/05/17 21:57	1
Trichloroethene (TCE)	0.40	U	1.0	0.13	ug/L			01/05/17 21:57	1
Vinyl chloride	0.80	U	1.0	0.22	ug/L			01/05/17 21:57	1
1,2-Dichloroethene, Total	0.80	U	1.0	0.20	ug/L			01/05/17 21:57	1
Methyl-tert-butyl Ether (MTBE)	1.4	J	2.0	0.19	ug/L			01/05/17 21:57	1
Vinyl acetate	0.80	U	2.0	0.21	ug/L			01/05/17 21:57	1
Xylenes, Total	1.2	U	1.5	0.18	ug/L			01/05/17 21:57	1
1,1,1,2-Tetrachloroethane	0.40	U	1.0	0.10	ug/L			01/05/17 21:57	1
1,2,3-Trichlorobenzene	0.40	U	1.0	0.14	ug/L			01/05/17 21:57	1
1,2,3-Trichloropropane	0.40	U	1.0	0.13	ug/L			01/05/17 21:57	1
1,2,4-Trichlorobenzene	0.40	U	1.0	0.10	ug/L			01/05/17 21:57	1
1,2,4-Trimethylbenzene	0.40	U	1.0	0.12	ug/L			01/05/17 21:57	1
1,3,5-Trimethylbenzene	0.40	U	1.0	0.14	ug/L			01/05/17 21:57	1
Di-isopropyl ether (DIPE)	0.24	J	2.0	0.15	ug/L			01/05/17 21:57	1
Ethyl tert-butyl ether	0.40	U	2.0	0.15	ug/L			01/05/17 21:57	1
Naphthalene	0.40	U	1.0	0.15	ug/L			01/05/17 21:57	1
N-Propylbenzene	0.26	J	1.0	0.15	ug/L			01/05/17 21:57	1
Tert-amyl methyl ether	0.40	U	2.0	0.15	ug/L			01/05/17 21:57	1
tert-Butyl alcohol (TBA)	470		50	4.3	ug/L			01/05/17 21:57	1
Trichlorofluoromethane	0.80	U	1.0	0.23	ug/L			01/05/17 21:57	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		81 - 118			01/05/17 21:57	1
4-Bromofluorobenzene (Surr)	111		85 - 114			01/05/17 21:57	1
Dibromofluoromethane (Surr)	104		80 - 119			01/05/17 21:57	1
Toluene-d8 (Surr)	103		89 - 112			01/05/17 21:57	1

Method: 8015B DRO - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3800	B	J	97	ug/L		01/03/17 11:44	01/07/17 02:47	2

TestAmerica Sacramento

Accepted 1/20/2017

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Client Sample Results

Client: AECOM, Inc.

Project/Site: China Lake, Project# 60432333.1.3

TestAmerica Job ID: 320-24730-1

Client Sample ID: ITC02-MW15-16A

Date Collected: 12/29/16 09:20

Date Received: 12/30/16 09:55

Lab Sample ID: 320-24730-4

Matrix: Water

Method: 8015B DRO - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40]	770	S	970	320	ug/L		01/03/17 11:44	01/07/17 02:47	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl (Surf)</i>	47	Q	56 - 125				01/03/17 11:44	01/07/17 02:47	2

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210	D-	50	1.9	mg/L		01/17/17 18:29		50
Nitrate as N	0.15	U	0.25	0.11	mg/L		12/30/16 14:23		5
Nitrite as N	0.15	U	0.25	0.080	mg/L		12/30/16 14:23		5
Sulfate	1.0	J D-	5.0	0.25	mg/L		12/30/16 14:23		5
Orthophosphate as P	0.75	U	1.0	0.39	mg/L		12/30/16 14:23		5

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	14000		1000	160	ug/L		01/06/17 21:49		1
Bicarbonate Alkalinity	420000		5000	5000	ug/L		01/10/17 14:14		1
Total Dissolved Solids	860000	B	10000	5400	ug/L		01/03/17 13:56		1

Client Sample ID: ITC44-MW16-16A**Lab Sample ID: 320-24730-5**

Date Collected: 12/29/16 10:05

Date Received: 12/30/16 09:55

Matrix: Water

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	23	J	50	15	ug/L			01/05/17 22:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surf)</i>	101		73 - 115					01/05/17 22:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.40	U	1.0	0.19	ug/L		01/05/17 22:20		1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.15	ug/L		01/05/17 22:20		1
1,1,2-Trichloroethane	0.80	U	1.0	0.31	ug/L		01/05/17 22:20		1
1,1-DCA	0.40	U	1.0	0.15	ug/L		01/05/17 22:20		1
1,1-Dichlorethylene	0.40	U	1.0	0.14	ug/L		01/05/17 22:20		1
1,2-DCA	0.50	U	1.0	0.22	ug/L		01/05/17 22:20		1
1,2-Dichloropropane	0.40	U	1.0	0.15	ug/L		01/05/17 22:20		1
2-Butanone	0.80	U	2.0	0.35	ug/L		01/05/17 22:20		1
2-Hexanone	0.40	U	2.0	0.17	ug/L		01/05/17 22:20		1
4-Methyl-2-pentanone (MIBK)	0.40	U	2.0	0.18	ug/L		01/05/17 22:20		1
Acetone	5.0	U	10	2.1	ug/L		01/05/17 22:20		1
Benzene	0.40	U	1.0	0.13	ug/L		01/05/17 22:20		1
Bromodichloromethane	0.40	U	1.0	0.14	ug/L		01/05/17 22:20		1
Bromoform	0.40	U	1.0	0.10	ug/L		01/05/17 22:20		1
Bromomethane	0.80	U	1.0	0.29	ug/L		01/05/17 22:20		1
Carbon disulfide	0.40	U	2.0	0.16	ug/L		01/05/17 22:20		1
Carbon tetrachloride	0.40	U	1.0	0.15	ug/L		01/05/17 22:20		1
Chlorobenzene	0.40	U	1.0	0.12	ug/L		01/05/17 22:20		1

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Client Sample Results

Client: AECOM, Inc.

Project/Site: China Lake, Project# 60432333.1.3

TestAmerica Job ID: 320-24730-1

Client Sample ID: ITC44-MW16-16A

Date Collected: 12/29/16 10:05

Date Received: 12/30/16 09:55

Lab Sample ID: 320-24730-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	0.80	U	1.0	0.34	ug/L		01/05/17 22:20		1
Chloroform	0.40	U	1.0	0.12	ug/L		01/05/17 22:20		1
Chloromethane	0.80	U	1.0	0.25	ug/L		01/05/17 22:20		1
cis-1,2-Dichloroethene	0.40	U	1.0	0.10	ug/L		01/05/17 22:20		1
cis-1,3-Dichloropropene	0.80	U	1.0	0.22	ug/L		01/05/17 22:20		1
Dibromochloromethane	0.40	U	1.0	0.13	ug/L		01/05/17 22:20		1
Ethylbenzene	0.40	U	1.0	0.15	ug/L		01/05/17 22:20		1
m-Xylene & p-Xylene	0.40	U	1.0	0.18	ug/L		01/05/17 22:20		1
Methylene Chloride	0.80	U	1.0	0.35	ug/L		01/05/17 22:20		1
o-Xylene	0.40	U	1.0	0.10	ug/L		01/05/17 22:20		1
Styrene	0.40	U	1.0	0.15	ug/L		01/05/17 22:20		1
Tetrachloroethene (PCE)	0.40	U	1.0	0.15	ug/L		01/05/17 22:20		1
Toluene	0.80	U	1.0	0.25	ug/L		01/05/17 22:20		1
trans-1,2-Dichloroethene	0.40	U	1.0	0.11	ug/L		01/05/17 22:20		1
trans-1,3-Dichloropropene	0.40	U	1.0	0.15	ug/L		01/05/17 22:20		1
Trichloroethene (TCE)	0.40	U	1.0	0.13	ug/L		01/05/17 22:20		1
Vinyl chloride	0.80	U	1.0	0.22	ug/L		01/05/17 22:20		1
1,2-Dichloroethene, Total	0.80	U	1.0	0.20	ug/L		01/05/17 22:20		1
Methyl-tert-butyl Ether (MTBE)	0.40	U	2.0	0.19	ug/L		01/05/17 22:20		1
Vinyl acetate	0.80	U	2.0	0.21	ug/L		01/05/17 22:20		1
Xylenes, Total	1.2	U	1.5	0.18	ug/L		01/05/17 22:20		1
1,1,1,2-Tetrachloroethane	0.40	U	1.0	0.10	ug/L		01/05/17 22:20		1
1,2,3-Trichlorobenzene	0.40	U	1.0	0.14	ug/L		01/05/17 22:20		1
1,2,3-Trichloropropane	0.40	U	1.0	0.13	ug/L		01/05/17 22:20		1
1,2,4-Trichlorobenzene	0.40	U	1.0	0.10	ug/L		01/05/17 22:20		1
1,2,4-Trimethylbenzene	0.40	U	1.0	0.12	ug/L		01/05/17 22:20		1
1,3,5-Trimethylbenzene	0.40	U	1.0	0.14	ug/L		01/05/17 22:20		1
Di-isopropyl ether (Dipe)	0.40	U	2.0	0.15	ug/L		01/05/17 22:20		1
Ethyl tert-butyl ether	0.40	U	2.0	0.15	ug/L		01/05/17 22:20		1
Naphthalene	0.40	U	1.0	0.15	ug/L		01/05/17 22:20		1
N-Propylbenzene	0.40	U	1.0	0.15	ug/L		01/05/17 22:20		1
Tert-amyl methyl ether	0.40	U	2.0	0.15	ug/L		01/05/17 22:20		1
tert-Butyl alcohol (TBA)	10	U	50	4.3	ug/L		01/05/17 22:20		1
Trichlorofluoromethane	0.80	U	1.0	0.23	ug/L		01/05/17 22:20		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surrogate)	101		81 - 118		01/05/17 22:20	1
4-Bromofluorobenzene (Surrogate)	101		85 - 114		01/05/17 22:20	1
Dibromofluoromethane (Surrogate)	103		80 - 119		01/05/17 22:20	1
Toluene-d8 (Surrogate)	103		89 - 112		01/05/17 22:20	1

Method: 8015B DRO - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38	U	48	15	ug/L		01/03/17 11:44	01/07/17 03:06	1
Motor Oil Range Organics [C28-C40]	380	U	480	160	ug/L		01/03/17 11:44	01/07/17 03:06	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
o-Terphenyl (Surrogate)	69		56 - 125		01/03/17 11:44	01/07/17 03:06	1		

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Client Sample Results

Client: AECOM, Inc.

Project/Site: China Lake, Project# 60432333.1.3

TestAmerica Job ID: 320-24730-1

Client Sample ID: ITC44-MW16-16A

Lab Sample ID: 320-24730-5

Matrix: Water

Date Collected: 12/29/16 10:05

Date Received: 12/30/16 09:55

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110	-D-	25	0.93	mg/L			01/17/17 18:41	25
Nitrate as N	0.35		0.050	0.022	mg/L			12/30/16 14:35	1
Nitrite as N	0.030	U	0.050	0.016	mg/L			12/30/16 14:35	1
Sulfate	82	-D-	5.0	0.25	mg/L			01/17/17 19:50	5
Orthophosphate as P	0.15	U	0.20	0.077	mg/L			12/30/16 14:35	1

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroctanoic acid (PFOA)	1.9	J	2.3	0.70	ng/L		01/05/17 12:38	01/06/17 18:51	1
Perfluoroctanesulfonic acid (PFOS)	1.6	J M-	3.7	1.2	ng/L		01/05/17 12:38	01/06/17 18:51	1
Perfluorobutanesulfonic acid (PFBS)	1.9	U M-	2.3	0.86	ng/L		01/05/17 12:38	01/06/17 18:51	1
Isotope Dilution	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
13C4 PFOA	78		25 - 150				01/05/17 12:38	01/06/17 18:51	1
13C4 PFOS	136		25 - 150				01/05/17 12:38	01/06/17 18:51	1
18O2 PFHxS	130		25 - 150				01/05/17 12:38	01/06/17 18:51	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	1000	550 U	1000	160	ug/L			01/06/17 22:34	1
Bicarbonate Alkalinity	140000		5000	5000	ug/L			01/10/17 14:21	1
Total Dissolved Solids	510000	B-	10000	5400	ug/L			01/03/17 13:56	1

Client Sample ID: ETC44-MW04-16A

Lab Sample ID: 320-24730-6

Matrix: Water

Date Collected: 12/29/16 11:40

Date Received: 12/30/16 09:55

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	16	J	50	15	ug/L			01/05/17 22:43	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surrt)	103		73 - 115				01/05/17 22:43		1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.40	U	1.0	0.19	ug/L			01/05/17 22:43	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.15	ug/L			01/05/17 22:43	1
1,1,2-Trichloroethane	0.80	U	1.0	0.31	ug/L			01/05/17 22:43	1
1,1-DCA	0.40	U	1.0	0.15	ug/L			01/05/17 22:43	1
1,1-Dichlorethylene	0.40	U	1.0	0.14	ug/L			01/05/17 22:43	1
1,2-DCA	0.50	U	1.0	0.22	ug/L			01/05/17 22:43	1
1,2-Dichloropropane	0.40	U	1.0	0.15	ug/L			01/05/17 22:43	1
2-Butanone	0.80	U	2.0	0.35	ug/L			01/05/17 22:43	1
2-Hexanone	0.40	U	2.0	0.17	ug/L			01/05/17 22:43	1
4-Methyl-2-pentanone (MIBK)	0.40	U	2.0	0.18	ug/L			01/05/17 22:43	1
Acetone	5.0	U	10	2.1	ug/L			01/05/17 22:43	1
Benzene	0.40	U	1.0	0.13	ug/L			01/05/17 22:43	1
Bromodichloromethane	0.40	U	1.0	0.14	ug/L			01/05/17 22:43	1
Bromoform	0.40	U	1.0	0.10	ug/L			01/05/17 22:43	1

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Client Sample Results

Client: AECOM, Inc.

Project/Site: China Lake, Project# 60432333.1.3

TestAmerica Job ID: 320-24730-1

Client Sample ID: ETC44-MW04-16A

Date Collected: 12/29/16 11:40

Date Received: 12/30/16 09:55

Lab Sample ID: 320-24730-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.80	U		1.0	ug/L		01/05/17 22:43		1
Carbon disulfide	0.40	U		2.0	ug/L		01/05/17 22:43		1
Carbon tetrachloride	0.40	U		1.0	ug/L		01/05/17 22:43		1
Chlorobenzene	0.40	U		1.0	ug/L		01/05/17 22:43		1
Chloroethane	0.80	U		1.0	ug/L		01/05/17 22:43		1
Chloroform	0.40	U		1.0	ug/L		01/05/17 22:43		1
Chloromethane	0.80	U		1.0	ug/L		01/05/17 22:43		1
cis-1,2-Dichloroethene	0.40	U		1.0	ug/L		01/05/17 22:43		1
cis-1,3-Dichloropropene	0.80	U		1.0	ug/L		01/05/17 22:43		1
Dibromoform	0.40	U		1.0	ug/L		01/05/17 22:43		1
Ethylbenzene	0.40	U		1.0	ug/L		01/05/17 22:43		1
m-Xylene & p-Xylene	0.40	U		1.0	ug/L		01/05/17 22:43		1
Methylene Chloride	0.80	U		1.0	ug/L		01/05/17 22:43		1
o-Xylene	0.40	U		1.0	ug/L		01/05/17 22:43		1
Styrene	0.40	U		1.0	ug/L		01/05/17 22:43		1
Tetrachloroethene (PCE)	0.42	J		1.0	ug/L		01/05/17 22:43		1
Toluene	0.80	U		1.0	ug/L		01/05/17 22:43		1
trans-1,2-Dichloroethene	0.40	U		1.0	ug/L		01/05/17 22:43		1
trans-1,3-Dichloropropene	0.40	U		1.0	ug/L		01/05/17 22:43		1
Trichloroethene (TCE)	0.40	U		1.0	ug/L		01/05/17 22:43		1
Vinyl chloride	0.80	U		1.0	ug/L		01/05/17 22:43		1
1,2-Dichloroethene, Total	0.80	U		1.0	ug/L		01/05/17 22:43		1
Methyl-tert-butyl Ether (MTBE)	0.40	U		2.0	ug/L		01/05/17 22:43		1
Vinyl acetate	0.80	U		2.0	ug/L		01/05/17 22:43		1
Xylenes, Total	1.2	U		1.5	ug/L		01/05/17 22:43		1
1,1,1,2-Tetrachloroethane	0.40	U		1.0	ug/L		01/05/17 22:43		1
1,2,3-Trichlorobenzene	0.40	U		1.0	ug/L		01/05/17 22:43		1
1,2,3-Trichloropropane	0.40	U		1.0	ug/L		01/05/17 22:43		1
1,2,4-Trichlorobenzene	0.40	U		1.0	ug/L		01/05/17 22:43		1
1,2,4-Trimethylbenzene	0.40	U		1.0	ug/L		01/05/17 22:43		1
1,3,5-Trimethylbenzene	0.40	U		1.0	ug/L		01/05/17 22:43		1
Di-isopropyl ether (DIPE)	0.40	U		2.0	ug/L		01/05/17 22:43		1
Ethyl tert-butyl ether	0.40	U		2.0	ug/L		01/05/17 22:43		1
Naphthalene	0.40	U		1.0	ug/L		01/05/17 22:43		1
N-Propylbenzene	0.40	U		1.0	ug/L		01/05/17 22:43		1
Tert-amyl methyl ether	0.40	U		2.0	ug/L		01/05/17 22:43		1
tert-Butyl alcohol (TBA)	10	U		50	ug/L		01/05/17 22:43		1
Trichlorofluoromethane	0.80	U		1.0	ug/L		01/05/17 22:43		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		01/05/17 22:43	1
4-Bromofluorobenzene (Surr)	103		85 - 114		01/05/17 22:43	1
Dibromofluoromethane (Surr)	102		80 - 119		01/05/17 22:43	1
Toluene-d8 (Surr)	101		89 - 112		01/05/17 22:43	1

Method: 8015B DRO - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38	U		48	ug/L		01/03/17 11:44	01/07/17 03:24	1
Motor Oil Range Organics [C28-C40]	380	U		480	ug/L		01/03/17 11:44	01/07/17 03:24	1

TestAmerica Sacramento

Client Sample Results

Client: AECOM, Inc.

Project/Site: China Lake, Project# 60432333.1.3

TestAmerica Job ID: 320-24730-1

Client Sample ID: ETC44-MW04-16A

Lab Sample ID: 320-24730-6

Date Collected: 12/29/16 11:40

Matrix: Water

Date Received: 12/30/16 09:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Sur)	67		56 - 125	01/03/17 11:44	01/07/17 03:24	1

5

6

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170	-B-	50	1.9	mg/L			01/17/17 18:52	50
Nitrate as N	0.79		0.050	0.022	mg/L			12/30/16 14:46	1
Nitrite as N	0.030	U	0.050	0.016	mg/L			12/30/16 14:46	1
Sulfate	130	-B-	5.0	0.25	mg/L			01/17/17 20:24	5
Orthophosphate as P	0.15	U	0.20	0.077	mg/L			12/30/16 14:46	1

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroctanoic acid (PFOA)	3.1	-M-	2.3	0.70	ng/L		01/05/17 12:38	01/06/17 18:59	1
Perfluoroctanesulfonic acid (PFOS)	1.2	JML	3.7	1.2	ng/L		01/05/17 12:38	01/06/17 18:59	1
Perfluorobutanesulfonic acid (PFBS)	2.4		2.3	0.85	ng/L		01/05/17 12:38	01/06/17 18:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	68		25 - 150				01/05/17 12:38	01/06/17 18:59	1
13C4 PFOS	126		25 - 150				01/05/17 12:38	01/06/17 18:59	1
18O2 PFHxS	121		25 - 150				01/05/17 12:38	01/06/17 18:59	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	1000	-650 J U	1000	160	ug/L			01/06/17 22:50	1
Bicarbonate Alkalinity	120000		5000	5000	ug/L			01/10/17 14:29	1
Total Dissolved Solids	660000	-B-	10000	5400	ug/L			01/03/17 13:56	1

B

Client Sample ID: ITC44-MW17-16A

Lab Sample ID: 320-24730-7

Date Collected: 12/29/16 12:30

Matrix: Water

Date Received: 12/30/16 09:55

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	30	U	50	15	ug/L			01/05/17 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	103		73 - 115				01/05/17 23:06		1

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.40	U	1.0	0.19	ug/L			01/05/17 23:06	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.15	ug/L			01/05/17 23:06	1
1,1,2-Trichloroethane	0.80	U	1.0	0.31	ug/L			01/05/17 23:06	1
1,1-DCA	0.40	U	1.0	0.15	ug/L			01/05/17 23:06	1
1,1-Dichlorethylene	0.40	U	1.0	0.14	ug/L			01/05/17 23:06	1
1,2-DCA	0.50	U	1.0	0.22	ug/L			01/05/17 23:06	1
1,2-Dichloropropane	0.40	U	1.0	0.15	ug/L			01/05/17 23:06	1
2-Butanone	0.80	U	2.0	0.35	ug/L			01/05/17 23:06	1
2-Hexanone	0.40	U	2.0	0.17	ug/L			01/05/17 23:06	1
4-Methyl-2-pentanone (MIBK)	0.40	U	2.0	0.18	ug/L			01/05/17 23:06	1

Sealed
3/1/17

TestAmerica Sacramento

Client Sample Results

Client: AECOM, Inc.

Project/Site: China Lake, Project# 60432333.1.3

TestAmerica Job ID: 320-24730-1

Client Sample ID: ITC44-MW17-16A

Date Collected: 12/29/16 12:30

Date Received: 12/30/16 09:55

Lab Sample ID: 320-24730-7

Matrix: Water

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Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	U		10	ug/L			01/05/17 23:06	1
Benzene	0.40	U		1.0	0.13 ug/L			01/05/17 23:06	1
Bromodichloromethane	0.40	U		1.0	0.14 ug/L			01/05/17 23:06	1
Bromoform	0.40	U		1.0	0.10 ug/L			01/05/17 23:06	1
Bromomethane	0.80	U		1.0	0.29 ug/L			01/05/17 23:06	1
Carbon disulfide	0.40	U		2.0	0.16 ug/L			01/05/17 23:06	1
Carbon tetrachloride	0.40	U		1.0	0.15 ug/L			01/05/17 23:06	1
Chlorobenzene	0.40	U		1.0	0.12 ug/L			01/05/17 23:06	1
Chloroethane	0.80	U		1.0	0.34 ug/L			01/05/17 23:06	1
Chloroform	0.40	U		1.0	0.12 ug/L			01/05/17 23:06	1
Chloromethane	0.80	U		1.0	0.25 ug/L			01/05/17 23:06	1
cis-1,2-Dichloroethene	0.40	U		1.0	0.10 ug/L			01/05/17 23:06	1
cis-1,3-Dichloropropene	0.80	U		1.0	0.22 ug/L			01/05/17 23:06	1
Dibromochloromethane	0.40	U		1.0	0.13 ug/L			01/05/17 23:06	1
Ethylbenzene	0.40	U		1.0	0.15 ug/L			01/05/17 23:06	1
m-Xylene & p-Xylene	0.40	U		1.0	0.18 ug/L			01/05/17 23:06	1
Methylene Chloride	0.80	U		1.0	0.35 ug/L			01/05/17 23:06	1
o-Xylene	0.40	U		1.0	0.10 ug/L			01/05/17 23:06	1
Styrene	0.40	U		1.0	0.15 ug/L			01/05/17 23:06	1
Tetrachloroethene (PCE)	0.40	U		1.0	0.15 ug/L			01/05/17 23:06	1
Toluene	0.80	U		1.0	0.25 ug/L			01/05/17 23:06	1
trans-1,2-Dichloroethene	0.40	U		1.0	0.11 ug/L			01/05/17 23:06	1
trans-1,3-Dichloropropene	0.40	U		1.0	0.15 ug/L			01/05/17 23:06	1
Trichloroethene (TCE)	0.40	U		1.0	0.13 ug/L			01/05/17 23:06	1
Vinyl chloride	0.80	U		1.0	0.22 ug/L			01/05/17 23:06	1
1,2-Dichloroethene, Total	0.80	U		1.0	0.20 ug/L			01/05/17 23:06	1
Methyl-tert-butyl Ether (MTBE)	0.40	U		2.0	0.19 ug/L			01/05/17 23:06	1
Vinyl acetate	0.80	U		2.0	0.21 ug/L			01/05/17 23:06	1
Xylenes, Total	1.2	U		1.5	0.18 ug/L			01/05/17 23:06	1
1,1,1,2-Tetrachloroethane	0.40	U		1.0	0.10 ug/L			01/05/17 23:06	1
1,2,3-Trichlorobenzene	0.40	U		1.0	0.14 ug/L			01/05/17 23:06	1
1,2,3-Trichloropropane	0.40	U		1.0	0.13 ug/L			01/05/17 23:06	1
1,2,4-Trichlorobenzene	0.40	U		1.0	0.10 ug/L			01/05/17 23:06	1
1,2,4-Trimethylbenzene	0.40	U		1.0	0.12 ug/L			01/05/17 23:06	1
1,3,5-Trimethylbenzene	0.40	U		1.0	0.14 ug/L			01/05/17 23:06	1
Di-isopropyl ether (DIPE)	0.40	U		2.0	0.15 ug/L			01/05/17 23:06	1
Ethyl tert-butyl ether	0.40	U		2.0	0.15 ug/L			01/05/17 23:06	1
Naphthalene	0.40	U		1.0	0.15 ug/L			01/05/17 23:06	1
N-Propylbenzene	0.40	U		1.0	0.15 ug/L			01/05/17 23:06	1
Tert-amyl methyl ether	0.40	U		2.0	0.15 ug/L			01/05/17 23:06	1
tert-Butyl alcohol (TBA)	10	U		50	4.3 ug/L			01/05/17 23:06	1
Trichlorofluoromethane	0.80	U		1.0	0.23 ug/L			01/05/17 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		01/05/17 23:06	1
4-Bromofluorobenzene (Surr)	103		85 - 114		01/05/17 23:06	1
Dibromofluoromethane (Surr)	103		80 - 119		01/05/17 23:06	1
Toluene-d8 (Surr)	103		89 - 112		01/05/17 23:06	1

TestAmerica Sacramento

Client Sample Results

Client: AECOM, Inc.

Project/Site: China Lake, Project# 60432333.1.3

TestAmerica Job ID: 320-24730-1

Client Sample ID: ITC44-MW17-16A**Lab Sample ID: 320-24730-7**

Date Collected: 12/29/16 12:30

Matrix: Water

Date Received: 12/30/16 09:55

Method: 8015B DRO - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	15	J	47	15	ug/L		01/03/17 11:44	01/07/17 03:43	1
Motor Oil Range Organics [C28-C40]	380	U	470	160	ug/L		01/03/17 11:44	01/07/17 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Sur)	65		56 - 125				01/03/17 11:44	01/07/17 03:43	1

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	380	D-	100	3.7	mg/L		01/17/17 19:27		100
Nitrate as N	0.15	U	0.25	0.11	mg/L		12/30/16 15:21		5
Nitrite as N	0.15	U	0.25	0.080	mg/L		12/30/16 15:21		5
Sulfate	780	D-M	50	2.5	mg/L		01/17/17 20:36		50
Orthophosphate as P	0.75	U	1.0	0.39	mg/L		12/30/16 15:21		5

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroctanoic acid (PFOA)	2100	E-M	2	0.73	ng/L		01/05/17 12:38	01/06/17 19:06	1
Perfluoroctanesulfonic acid (PFOS)	1700	E-	3.9	1.3	ng/L		01/05/17 12:38	01/06/17 19:06	1
Perfluorobutanesulfonic acid (PFBS)	940	E-M	↓	2.5	ng/L		01/05/17 12:38	01/06/17 19:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	33		25 - 150				01/05/17 12:38	01/06/17 19:06	1
13C4 PFOS	95		25 - 150				01/05/17 12:38	01/06/17 19:06	1
18O2 PFHxS	32		25 - 150				01/05/17 12:38	01/06/17 19:06	1

Method: 537 (Modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroctanoic acid (PFOA)	3200	B-M	49	15	ng/L		01/05/17 12:38	01/09/17 18:01	20
Perfluoroctanesulfonic acid (PFOS)	2500	B	79	25	ng/L		01/05/17 12:38	01/09/17 18:01	20
Perfluorobutanesulfonic acid (PFBS)	1000	B-	49	18	ng/L		01/05/17 12:38	01/09/17 18:01	20
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOA	56		25 - 150				01/05/17 12:38	01/09/17 18:01	20
13C4 PFOS	135		25 - 150				01/05/17 12:38	01/09/17 18:01	20
18O2 PFHxS	116		25 - 150				01/05/17 12:38	01/09/17 18:01	20

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	3300		1000	160	ug/L			01/06/17 23:05	1
Bicarbonate Alkalinity	310000		5000	5000	ug/L			01/10/17 14:38	1
Total Dissolved Solids	2100000	B-	20000	11000	ug/L			01/03/17 13:56	1

Client Sample ID: JMM01-MW03-16A**Lab Sample ID: 320-24730-8**

Date Collected: 12/29/16 13:25

Matrix: Water

Date Received: 12/30/16 09:55

Method: 8260/CALUFT DOD - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C4-C12	310		50	15	ug/L			01/05/17 23:28	1

TestAmerica Sacramento

1/20/2017
3/1/17

Client Sample Results

Client: AECOM, Inc.

Project/Site: China Lake, Project# 60432333.1.3

TestAmerica Job ID: 320-24730-1

Client Sample ID: TRIP BLANK

Date Collected: 12/29/16 00:00

Date Received: 12/30/16 09:55

Lab Sample ID: 320-24730-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	0.80	U	1.0	0.29	ug/L			01/05/17 20:26	1
Carbon disulfide	0.40	U	2.0	0.16	ug/L			01/05/17 20:26	1
Carbon tetrachloride	0.40	U	1.0	0.15	ug/L			01/05/17 20:26	1
Chlorobenzene	0.40	U	1.0	0.12	ug/L			01/05/17 20:26	1
Chloroethane	0.80	U	1.0	0.34	ug/L			01/05/17 20:26	1
Chloroform	0.40	U	1.0	0.12	ug/L			01/05/17 20:26	1
Chloromethane	0.80	U	1.0	0.25	ug/L			01/05/17 20:26	1
cis-1,2-Dichloroethene	0.40	U	1.0	0.10	ug/L			01/05/17 20:26	1
cis-1,3-Dichloropropene	0.80	U	1.0	0.22	ug/L			01/05/17 20:26	1
Dibromochloromethane	0.40	U	1.0	0.13	ug/L			01/05/17 20:26	1
Ethylbenzene	0.40	U	1.0	0.15	ug/L			01/05/17 20:26	1
m-Xylene & p-Xylene	0.40	U	1.0	0.18	ug/L			01/05/17 20:26	1
Methylene Chloride	0.80	U	1.0	0.35	ug/L			01/05/17 20:26	1
o-Xylene	0.40	U	1.0	0.10	ug/L			01/05/17 20:26	1
Styrene	0.40	U	1.0	0.15	ug/L			01/05/17 20:26	1
Tetrachloroethene (PCE)	0.40	U	1.0	0.15	ug/L			01/05/17 20:26	1
Toluene	0.80	U	1.0	0.25	ug/L			01/05/17 20:26	1
trans-1,2-Dichloroethene	0.40	U	1.0	0.11	ug/L			01/05/17 20:26	1
trans-1,3-Dichloropropene	0.40	U	1.0	0.15	ug/L			01/05/17 20:26	1
Trichloroethene (TCE)	0.40	U	1.0	0.13	ug/L			01/05/17 20:26	1
Vinyl chloride	0.80	U	1.0	0.22	ug/L			01/05/17 20:26	1
1,2-Dichloroethene, Total	0.80	U	1.0	0.20	ug/L			01/05/17 20:26	1
Methyl-tert-butyl Ether (MTBE)	0.40	U	2.0	0.19	ug/L			01/05/17 20:26	1
Vinyl acetate	0.80	U	2.0	0.21	ug/L			01/05/17 20:26	1
Xylenes, Total	1.2	U	1.5	0.18	ug/L			01/05/17 20:26	1
1,1,1,2-Tetrachloroethane	0.40	U	1.0	0.10	ug/L			01/05/17 20:26	1
1,2,3-Trichlorobenzene	0.40	U	1.0	0.14	ug/L			01/05/17 20:26	1
1,2,3-Trichloropropane	0.40	U	1.0	0.13	ug/L			01/05/17 20:26	1
1,2,4-Trichlorobenzene	0.40	U	1.0	0.10	ug/L			01/05/17 20:26	1
1,2,4-Trimethylbenzene	0.40	U	1.0	0.12	ug/L			01/05/17 20:26	1
1,3,5-Trimethylbenzene	0.40	U	1.0	0.14	ug/L			01/05/17 20:26	1
Di-isopropyl ether (DIPE)	0.40	U	2.0	0.15	ug/L			01/05/17 20:26	1
Ethyl tert-butyl ether	0.40	U	2.0	0.15	ug/L			01/05/17 20:26	1
Naphthalene	0.40	U	1.0	0.15	ug/L			01/05/17 20:26	1
N-Propylbenzene	0.40	U	1.0	0.15	ug/L			01/05/17 20:26	1
Tert-amyl methyl ether	0.40	U	2.0	0.15	ug/L			01/05/17 20:26	1
tert-Butyl alcohol (TBA)	10	U	50	4.3	ug/L			01/05/17 20:26	1
Trichlorofluoromethane	0.80	U	1.0	0.23	ug/L			01/05/17 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118		01/05/17 20:26	1
4-Bromofluorobenzene (Surr)	109		85 - 114		01/05/17 20:26	1
Dibromofluoromethane (Surr)	103		80 - 119		01/05/17 20:26	1
Toluene-d8 (Surr)	106		89 - 112		01/05/17 20:26	1



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TestAmerica Sacramento

LOCATION_NAME	SITE_NAME	INSTALLATION_ID	LOCATION_TYPE	LOCATION_TYPE_DESC	SDG	COORD_X	COORD_Y	ANALYTICAL_METHOD_GRP_DESC	SAMPLE_NAME	SAMPLE_MATRIX	SAMPLE_MATRIX_DESC	COLLECT_DATE
ITC44-MW17	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6657910.82	2438953.93	Perfluoroalkyl Compounds	ITC44-MW17-16A	WG	Ground water	29-Dec-16
ITC44-MW17	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6657910.82	2438953.93	Perfluoroalkyl Compounds	ITC44-MW17-16A	WG	Ground water	29-Dec-16
ITC44-MW17	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6657910.82	2438953.93	Perfluoroalkyl Compounds	ITC44-MW17-16A	WG	Ground water	29-Dec-16
ETC44-MW04	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6658479.89	2438679.86	Perfluoroalkyl Compounds	ETC44-MW04-16A	WG	Ground water	29-Dec-16
ETC44-MW04	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6658479.89	2438679.86	Perfluoroalkyl Compounds	ETC44-MW04-16A	WG	Ground water	29-Dec-16
ITC44-MW16	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6657868.54	2437605.28	Perfluoroalkyl Compounds	ITC44-MW16-16A	WG	Ground water	29-Dec-16
ITC44-MW17	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6657910.82	2438953.93	Perfluoroalkyl Compounds	ITC44-MW17-16A	WG	Ground water	29-Dec-16
ITC44-MW17	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6657910.82	2438953.93	Perfluoroalkyl Compounds	ITC44-MW17-16A	WG	Ground water	29-Dec-16
ITC44-MW17	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6657910.82	2438953.93	Perfluoroalkyl Compounds	ITC44-MW17-16A	WG	Ground water	29-Dec-16
ETC44-MW04	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6658479.89	2438679.86	Perfluoroalkyl Compounds	ETC44-MW04-16A	WG	Ground water	29-Dec-16
ITC44-MW16	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6657868.54	2437605.28	Perfluoroalkyl Compounds	ITC44-MW16-16A	WG	Ground water	29-Dec-16
ITC44-MW16	SITE 00044	CHINA_LAKE_NAWS	BH WLM	Borehole/Soil boring Monitoring well	320-24730-1	6657868.54	2437605.28	Perfluoroalkyl Compounds	ITC44-MW16-16A	WG	Ground water	29-Dec-16