CITY OF DULUTH
PURCHASING DIVISION
Room 100 City Hall
411 West First Street
Duluth, Minnesota 55802-1199
218/730-5340
purchasing@duluthmn.gov

Addendum 2
File # 17-0475
Michigan Street Hot Water Pipe Installation

This addendum serves to notify all bidders of the following changes to the solicitation documents:

1. Questions and answers from the pre-bid meeting are attached.
2. The pre-bid meeting sign-in sheet is now posted to the City website at http://www.duluthmn.gov/purchasing/bids-request-for-proposals/.
3. Prevailing wage rates MN105 were updated as of 8/11/17 and are attached to this addendum.

Please acknowledge receipt of this Addendum by initialing and dating Addendum #2 below the bid form on the invitation for bids.

Posted: August 11, 2017

DULUTH ENERGY SYSTEMS

Addendum #2

Project #1601
Duluth Energy Systems Hot Water Plant Connection
Duluth, MN 55802

Questions from the Pre-Bid Meeting:

1. What is the location of the pipe storage facility?
    a. 1220 W Railroad Street, Duluth, MN 55802, Contact will be provided once bid is awarded.
2. Are the piping sections bought in 40' sections or 20'?
    a. They are in 40' sections.
3. There is a discrepancy on the plans pages 4 & 8 in regards to the add/alternate.
    a. Page 4, profile shows phase 3 future contract. That is actually phase II add/Alternate scope of work.
    b. Page 8; Phase line/Alternate near the existing steam mains is part of the add/alternate in phase II.
4. What is the Schedule for the work?
    a. Phase 1 (City of Duluth Scope of work) will start on August 28, 2017 and commence at the end of October.
    b. Phase II work shall start after August 28, 2017 and will be determined once coordination between awarded contractor and City of Duluth work happens. Work end date shall be end of October or when the outdoor temperature drops below 32 degrees.
    c. All work will need to be coordinated with the City of Duluth Project along Michigan Street.
5. The outside diameter of the HDPE jacket on the 20" pipe is 31" not 28" as indicated on the plans.
6. Contaminated soil has been found within the dig site. Please find attached the soil test reports (TCLP Lead Analysis and Analytical Results).
    a. The location of the contaminated soils is at the phase 1/Phase 2 contract dividing line extending towards the East.
    b. Material is approved for disposal at Vonco V Landfill in Gary New Duluth
    c. Disposal billing will be setup directly through Duluth Energy Systems.
    d. Jeff Anderson at MSA is the contact for soil analysis. Contact # 218-499-3175.
7. Fusion welded joints will be utilized on this project. The manufacturer will be here August 30 thru September 1st for joint training.
8. Pipe is scheduled to be delivered August 28, 2017 to the Old GP Site in Duluth, MN.

ANALYTICAL REPORT

July 20, 2017

MSA Professional Services

Sample Delivery Group:	L922297
Samples Received:	06/29/2017
Project Number:	18391001
Description:	Michigan and 3rd Avenue West Soil Investigation
Site:	DULUTH
Report To:	Erica Klingfus 332 W. Superior Street, Suite 600 Duluth, MN 55802

Entire Report Reviewed By:

John Hawkins
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

GP-1 (2.5-5) L922297-01 Waste

Collected by: Erica Klingfus
Collected date/time: 06/27/17 10:15
Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Preparation by Method 1311	WG999970	1	07/18/17 10:01	07/18/17 10:01	KK
Metals (ICP) by Method 6010B	WG1000412	1	07/19/17 15:56	07/19/17 19:52	ST

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

John V Hawkins

John Hawkins
Technical Service Representative

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		7/18/2017 10:01:22 AM	WG999970
Fluid	1		7/18/2017 10:01:22 AM	WG999970
Initial pH	8.70		7/18/2017 10:01:22 AM	WG999970
Final pH	6.09		7/18/2017 10:01:22 AM	WG999970

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Lead	ND		0.100	5	1	07/19/2017 19:52	WG1000412

Method Blank (MB)

(MB) R3234640-1 07/19/17 19:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.0333	0.100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3234640-2 07/19/17 19:31 • (LCSD) R3234640-3 07/19/17 19:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Lead	10.0	10.1	10.1	101	101	80-120			0	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Rec.	Recovery.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

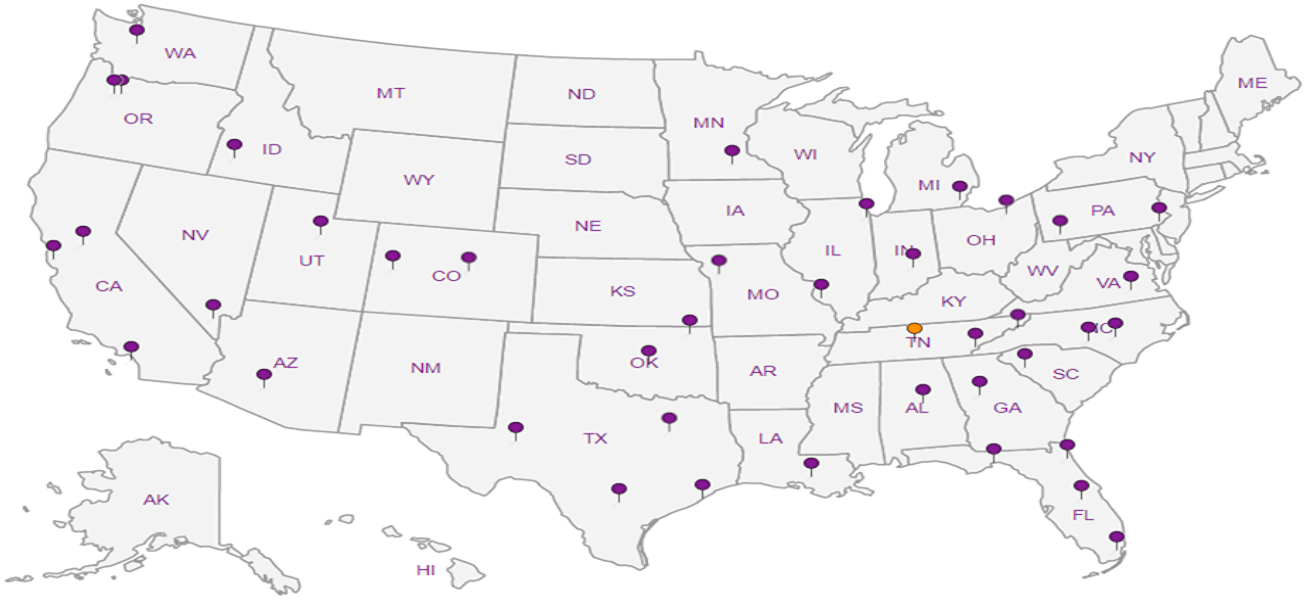
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



ANALYTICAL REPORT

July 11, 2017

MSA Professional Services

Sample Delivery Group:	L919536
Samples Received:	06/29/2017
Project Number:	18391001
Description:	Duluth Energy Systems Michigan and 3rd Soil
Site:	DULUTH
Report To:	Erica Klingfus 332 W. Superior Street, Suite 600 Duluth, MN 55802

Entire Report Reviewed By:

John Hawkins
Technical Service Representative

TABLE OF CONTENTS

GP-1 (2.5-5) L919536-01 Solid

Collected by: Erica Klingfus
Collected date/time: 06/27/17 10:15
Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995523	1	07/05/17 07:44	07/05/17 08:06	KDW
Mercury by Method 7471A	WG994826	1	06/30/17 18:19	07/03/17 10:52	EL
Metals (ICP) by Method 6010B	WG995193	1	07/03/17 22:38	07/04/17 03:54	ST
Volatile Organic Compounds (GC/MS) by Method 8260B	WG995599	51	06/27/17 10:15	07/05/17 07:56	BMB
Semi-Volatile Organic Compounds (GC) by Method WI(95) DRO	WG995546	5	07/06/17 13:53	07/06/17 23:24	ACM

GP-2 (5-7.5) L919536-02 Solid

Collected by: Erica Klingfus
Collected date/time: 06/27/17 10:25
Received date/time: 06/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG995523	1	07/05/17 07:44	07/05/17 08:06	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG995599	50	06/27/17 10:25	07/05/17 08:19	BMB
Semi-Volatile Organic Compounds (GC) by Method WI(95) DRO	WG995546	5	07/06/17 13:53	07/06/17 23:13	ACM

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

John Hawkins
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.3		1	07/05/2017 08:06	WG995523

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Mercury	0.104		0.0227	1	07/03/2017 10:52	WG994826

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	6.63		2.27	1	07/04/2017 03:54	WG995193
Barium	97.2		0.567	1	07/04/2017 03:54	WG995193
Cadmium	ND		0.567	1	07/04/2017 03:54	WG995193
Chromium	38.8		1.13	1	07/04/2017 03:54	WG995193
Lead	226		0.567	1	07/04/2017 03:54	WG995193
Selenium	ND		2.27	1	07/04/2017 03:54	WG995193
Silver	ND		1.13	1	07/04/2017 03:54	WG995193

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		2.89	51	07/05/2017 07:56	WG995599
Acrylonitrile	ND		0.578	51	07/05/2017 07:56	WG995599
Allyl chloride	ND		0.289	51	07/05/2017 07:56	WG995599
Benzene	0.0963		0.0578	51	07/05/2017 07:56	WG995599
Bromobenzene	ND		0.0578	51	07/05/2017 07:56	WG995599
Bromochloromethane	ND		0.0578	51	07/05/2017 07:56	WG995599
Bromodichloromethane	ND		0.0578	51	07/05/2017 07:56	WG995599
Bromoform	ND		0.0578	51	07/05/2017 07:56	WG995599
Bromomethane	ND		0.289	51	07/05/2017 07:56	WG995599
n-Butylbenzene	ND		0.0578	51	07/05/2017 07:56	WG995599
sec-Butylbenzene	ND		0.0578	51	07/05/2017 07:56	WG995599
tert-Butylbenzene	ND		0.0578	51	07/05/2017 07:56	WG995599
Carbon tetrachloride	ND		0.0578	51	07/05/2017 07:56	WG995599
Chlorobenzene	ND		0.0578	51	07/05/2017 07:56	WG995599
Chlorodibromomethane	ND		0.0578	51	07/05/2017 07:56	WG995599
Chloroethane	ND		0.289	51	07/05/2017 07:56	WG995599
Chloroform	ND		0.289	51	07/05/2017 07:56	WG995599
Chloromethane	ND		0.144	51	07/05/2017 07:56	WG995599
2-Chlorotoluene	ND		0.0578	51	07/05/2017 07:56	WG995599
4-Chlorotoluene	ND		0.0578	51	07/05/2017 07:56	WG995599
1,2-Dibromo-3-Chloropropane	ND		0.289	51	07/05/2017 07:56	WG995599
1,2-Dibromoethane	ND		0.0578	51	07/05/2017 07:56	WG995599
Dibromomethane	ND		0.0578	51	07/05/2017 07:56	WG995599
1,2-Dichlorobenzene	ND		0.0578	51	07/05/2017 07:56	WG995599
1,3-Dichlorobenzene	ND		0.0578	51	07/05/2017 07:56	WG995599
1,4-Dichlorobenzene	ND		0.0578	51	07/05/2017 07:56	WG995599
Dichlorodifluoromethane	ND		0.289	51	07/05/2017 07:56	WG995599
1,1-Dichloroethane	ND		0.0578	51	07/05/2017 07:56	WG995599
1,2-Dichloroethane	ND		0.0578	51	07/05/2017 07:56	WG995599
1,1-Dichloroethene	ND		0.0578	51	07/05/2017 07:56	WG995599
cis-1,2-Dichloroethene	ND		0.0578	51	07/05/2017 07:56	WG995599
trans-1,2-Dichloroethene	ND		0.0578	51	07/05/2017 07:56	WG995599
1,2-Dichloropropane	ND		0.0578	51	07/05/2017 07:56	WG995599

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1-Dichloropropene	ND		0.0578	51	07/05/2017 07:56	WG995599
1,3-Dichloropropane	ND		0.0578	51	07/05/2017 07:56	WG995599
cis-1,3-Dichloropropene	ND		0.0578	51	07/05/2017 07:56	WG995599
trans-1,3-Dichloropropene	ND		0.0578	51	07/05/2017 07:56	WG995599
2,2-Dichloropropane	ND		0.0578	51	07/05/2017 07:56	WG995599
Di-isopropyl ether	ND		0.0578	51	07/05/2017 07:56	WG995599
Ethylbenzene	0.155		0.0578	51	07/05/2017 07:56	WG995599
Ethyl ether	ND		0.0578	51	07/05/2017 07:56	WG995599
Hexachloro-1,3-butadiene	ND		0.0578	51	07/05/2017 07:56	WG995599
2-Hexanone	ND		0.578	51	07/05/2017 07:56	WG995599
Isopropylbenzene	0.0869		0.0578	51	07/05/2017 07:56	WG995599
p-Isopropyltoluene	ND		0.0578	51	07/05/2017 07:56	WG995599
2-Butanone (MEK)	ND		0.578	51	07/05/2017 07:56	WG995599
Methylene Chloride	ND		0.289	51	07/05/2017 07:56	WG995599
4-Methyl-2-pentanone (MIBK)	ND		0.578	51	07/05/2017 07:56	WG995599
Methyl tert-butyl ether	ND		0.0578	51	07/05/2017 07:56	WG995599
Naphthalene	0.600		0.289	51	07/05/2017 07:56	WG995599
n-Propylbenzene	0.114		0.0578	51	07/05/2017 07:56	WG995599
Styrene	ND		0.0578	51	07/05/2017 07:56	WG995599
1,1,1,2-Tetrachloroethane	ND		0.0578	51	07/05/2017 07:56	WG995599
1,1,2,2-Tetrachloroethane	ND		0.0578	51	07/05/2017 07:56	WG995599
1,1,2-Trichlorotrifluoroethane	ND		0.0578	51	07/05/2017 07:56	WG995599
Tetrachloroethene	ND		0.0578	51	07/05/2017 07:56	WG995599
Tetrahydrofuran	ND		0.289	51	07/05/2017 07:56	WG995599
Toluene	0.563		0.289	51	07/05/2017 07:56	WG995599
1,2,3-Trichlorobenzene	ND		0.0578	51	07/05/2017 07:56	WG995599
1,2,4-Trichlorobenzene	ND		0.0578	51	07/05/2017 07:56	WG995599
1,1,1-Trichloroethane	ND		0.0578	51	07/05/2017 07:56	WG995599
1,1,2-Trichloroethane	ND		0.0578	51	07/05/2017 07:56	WG995599
Trichloroethene	ND		0.0578	51	07/05/2017 07:56	WG995599
Trichlorofluoromethane	ND		0.289	51	07/05/2017 07:56	WG995599
1,2,3-Trichloropropane	ND		0.144	51	07/05/2017 07:56	WG995599
1,2,4-Trimethylbenzene	0.221		0.0578	51	07/05/2017 07:56	WG995599
1,2,3-Trimethylbenzene	0.0931		0.0578	51	07/05/2017 07:56	WG995599
1,3,5-Trimethylbenzene	ND		0.0578	51	07/05/2017 07:56	WG995599
Vinyl chloride	ND		0.0578	51	07/05/2017 07:56	WG995599
Xylenes, Total	0.829		0.173	51	07/05/2017 07:56	WG995599
(S) Toluene-d8	*104*		*80.0-120*		*07/05/2017 07:56*	WG995599
(S) Dibromofluoromethane	*90.4*		*74.0-131*		*07/05/2017 07:56*	WG995599
(S) 4-Bromofluorobenzene	*97.9*		*64.0-132*		*07/05/2017 07:56*	WG995599

Semi-Volatile Organic Compounds (GC) by Method WI(95) DRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	93.1		45.3	5	07/06/2017 23:24	WG995546
(S) Triacontane	*136*		*10.0-160*		*07/06/2017 23:24*	WG995546

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.4		1	07/05/2017 08:06	WG995523

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		3.00	50	07/05/2017 08:19	WG995599
Acrylonitrile	ND		0.600	50	07/05/2017 08:19	WG995599
Allyl chloride	ND		0.300	50	07/05/2017 08:19	WG995599
Benzene	ND		0.0600	50	07/05/2017 08:19	WG995599
Bromobenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
Bromochloromethane	ND		0.0600	50	07/05/2017 08:19	WG995599
Bromodichloromethane	ND		0.0600	50	07/05/2017 08:19	WG995599
Bromoform	ND		0.0600	50	07/05/2017 08:19	WG995599
Bromomethane	ND		0.300	50	07/05/2017 08:19	WG995599
n-Butylbenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
sec-Butylbenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
tert-Butylbenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
Carbon tetrachloride	ND		0.0600	50	07/05/2017 08:19	WG995599
Chlorobenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
Chlorodibromomethane	ND		0.0600	50	07/05/2017 08:19	WG995599
Chloroethane	ND		0.300	50	07/05/2017 08:19	WG995599
Chloroform	ND		0.300	50	07/05/2017 08:19	WG995599
Chloromethane	ND		0.150	50	07/05/2017 08:19	WG995599
2-Chlorotoluene	ND		0.0600	50	07/05/2017 08:19	WG995599
4-Chlorotoluene	ND		0.0600	50	07/05/2017 08:19	WG995599
1,2-Dibromo-3-Chloropropane	ND		0.300	50	07/05/2017 08:19	WG995599
1,2-Dibromoethane	ND		0.0600	50	07/05/2017 08:19	WG995599
Dibromomethane	ND		0.0600	50	07/05/2017 08:19	WG995599
1,2-Dichlorobenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
1,3-Dichlorobenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
1,4-Dichlorobenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
Dichlorodifluoromethane	ND		0.300	50	07/05/2017 08:19	WG995599
1,1-Dichloroethane	ND		0.0600	50	07/05/2017 08:19	WG995599
1,2-Dichloroethane	ND		0.0600	50	07/05/2017 08:19	WG995599
1,1-Dichloroethene	ND		0.0600	50	07/05/2017 08:19	WG995599
cis-1,2-Dichloroethene	ND		0.0600	50	07/05/2017 08:19	WG995599
trans-1,2-Dichloroethene	ND		0.0600	50	07/05/2017 08:19	WG995599
1,2-Dichloropropane	ND		0.0600	50	07/05/2017 08:19	WG995599
1,1-Dichloropropene	ND		0.0600	50	07/05/2017 08:19	WG995599
1,3-Dichloropropane	ND		0.0600	50	07/05/2017 08:19	WG995599
cis-1,3-Dichloropropene	ND		0.0600	50	07/05/2017 08:19	WG995599
trans-1,3-Dichloropropene	ND		0.0600	50	07/05/2017 08:19	WG995599
2,2-Dichloropropane	ND		0.0600	50	07/05/2017 08:19	WG995599
Di-isopropyl ether	ND		0.0600	50	07/05/2017 08:19	WG995599
Ethylbenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
Ethyl ether	ND		0.0600	50	07/05/2017 08:19	WG995599
Hexachloro-1,3-butadiene	ND		0.0600	50	07/05/2017 08:19	WG995599
2-Hexanone	ND		0.600	50	07/05/2017 08:19	WG995599
Isopropylbenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
p-Isopropyltoluene	ND		0.0600	50	07/05/2017 08:19	WG995599
2-Butanone (MEK)	ND		0.600	50	07/05/2017 08:19	WG995599
Methylene Chloride	ND		0.300	50	07/05/2017 08:19	WG995599
4-Methyl-2-pentanone (MIBK)	ND		0.600	50	07/05/2017 08:19	WG995599
Methyl tert-butyl ether	ND		0.0600	50	07/05/2017 08:19	WG995599
Naphthalene	ND		0.300	50	07/05/2017 08:19	WG995599

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
n-Propylbenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
Styrene	ND		0.0600	50	07/05/2017 08:19	WG995599
1,1,1,2-Tetrachloroethane	ND		0.0600	50	07/05/2017 08:19	WG995599
1,1,2,2-Tetrachloroethane	ND		0.0600	50	07/05/2017 08:19	WG995599
1,1,2-Trichlorotrifluoroethane	ND		0.0600	50	07/05/2017 08:19	WG995599
Tetrachloroethene	ND		0.0600	50	07/05/2017 08:19	WG995599
Tetrahydrofuran	ND		0.300	50	07/05/2017 08:19	WG995599
Toluene	ND		0.300	50	07/05/2017 08:19	WG995599
1,2,3-Trichlorobenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
1,2,4-Trichlorobenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
1,1,1-Trichloroethane	ND		0.0600	50	07/05/2017 08:19	WG995599
1,1,2-Trichloroethane	ND		0.0600	50	07/05/2017 08:19	WG995599
Trichloroethene	ND		0.0600	50	07/05/2017 08:19	WG995599
Trichlorofluoromethane	ND		0.300	50	07/05/2017 08:19	WG995599
1,2,3-Trichloropropane	ND		0.150	50	07/05/2017 08:19	WG995599
1,2,4-Trimethylbenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
1,2,3-Trimethylbenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
1,3,5-Trimethylbenzene	ND		0.0600	50	07/05/2017 08:19	WG995599
Vinyl chloride	ND		0.0600	50	07/05/2017 08:19	WG995599
Xylenes, Total	0.188		0.180	50	07/05/2017 08:19	WG995599
(S) Toluene-d8	*104*		*80.0-120*		*07/05/2017 08:19*	WG995599
(S) Dibromofluoromethane	*91.6*		*74.0-131*		*07/05/2017 08:19*	WG995599
(S) 4-Bromofluorobenzene	*95.5*		*64.0-132*		*07/05/2017 08:19*	WG995599

Semi-Volatile Organic Compounds (GC) by Method WI(95) DRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		48.0	5	07/06/2017 23:13	WG995546
(S) Triacontane	*117*		*10.0-160*		*07/06/2017 23:13*	WG995546

Sample Narrative:

L919536-02 WG995546: Dilution due to matrix impact during extract concentration procedure

Method Blank (MB)

(MB) R3231261-1 07/05/17 08:06

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000800			

L919537-02 Original Sample (OS) • Duplicate (DUP)

(OS) L919537-02 07/05/17 08:06 • (DUP) R3231261-3 07/05/17 08:06

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.2	70.7	1	4.84		5

Laboratory Control Sample (LCS)

(LCS) R3231261-2 07/05/17 08:06

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3230649-1 07/03/17 10:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Mercury	U		0.0028	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3230649-2 07/03/17 10:38 • (LCSD) R3230649-3 07/03/17 10:40

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Mercury	0.300	0.275	0.291	92	97	80-120			6	20

L919737-63 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919737-63 07/03/17 10:42 • (MS) R3230649-4 07/03/17 10:45 • (MSD) R3230649-5 07/03/17 10:47

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.300	0.0277	0.286	0.302	86	92	1	75-125			5	20

Method Blank (MB)

(MB) R3230860-1 07/04/17 03:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Cadmium	U		0.07	0.500
Chromium	U		0.14	1.00
Lead	U		0.19	0.500
Selenium	U		0.74	2.00
Silver	U		0.28	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3230860-2 07/04/17 03:24 • (LCSD) R3230860-3 07/04/17 03:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	101	102	101	102	80-120			2	20
Barium	100	105	106	105	106	80-120			1	20
Cadmium	100	101	103	101	103	80-120			2	20
Chromium	100	105	105	105	105	80-120			0	20
Lead	100	102	104	102	104	80-120			2	20
Selenium	100	101	102	101	102	80-120			1	20
Silver	20.0	19.8	20.0	99	100	80-120			1	20

L919936-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919936-05 07/04/17 03:29 • (MS) R3230860-6 07/04/17 03:37 • (MSD) R3230860-7 07/04/17 03:40

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	111	1.14	110	110	98	98	1	75-125			0	20
Barium	111	42.1	150	155	97	102	1	75-125			4	20
Cadmium	111	U	110	110	99	99	1	75-125			0	20
Chromium	111	19.2	135	131	104	100	1	75-125			3	20
Lead	111	0.363	113	113	101	101	1	75-125			0	20
Selenium	111	U	109	109	98	98	1	75-125			0	20
Silver	22.3	U	21.6	21.6	97	97	1	75-125			0	20

Method Blank (MB)

(MB) R3231416-3 07/05/17 05:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0100	0.0500
Acrylonitrile	U		0.00179	0.0100
Benzene	U		0.000270	0.00100
Bromobenzene	U		0.000284	0.00100
Bromodichloromethane	U		0.000254	0.00100
Bromochloromethane	U		0.000390	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00134	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000328	0.00100
Chlorobenzene	U		0.000212	0.00100
Chlorodibromomethane	U		0.000373	0.00100
Chloroethane	U		0.000946	0.00500
Chloroform	U		0.000229	0.00500
Chloromethane	U		0.000375	0.00250
2-Chlorotoluene	U		0.000301	0.00100
4-Chlorotoluene	U		0.000240	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00105	0.00500
1,2-Dibromoethane	U		0.000343	0.00100
Dibromomethane	U		0.000382	0.00100
1,2-Dichlorobenzene	U		0.000305	0.00100
1,3-Dichlorobenzene	U		0.000239	0.00100
1,4-Dichlorobenzene	U		0.000226	0.00100
Dichlorodifluoromethane	U		0.000713	0.00500
1,1-Dichloroethane	U		0.000199	0.00100
1,2-Dichloroethane	U		0.000265	0.00100
1,1-Dichloroethene	U		0.000303	0.00100
cis-1,2-Dichloroethene	U		0.000235	0.00100
trans-1,2-Dichloroethene	U		0.000264	0.00100
1,2-Dichloropropane	U		0.000358	0.00100
1,1-Dichloropropene	U		0.000317	0.00100
1,3-Dichloropropane	U		0.000207	0.00100
cis-1,3-Dichloropropene	U		0.000262	0.00100
trans-1,3-Dichloropropene	U		0.000267	0.00100
2,2-Dichloropropane	U		0.000279	0.00100
Di-isopropyl ether	U		0.000248	0.00100
Ethylbenzene	U		0.000297	0.00100
Ethyl ether	U		0.000389	0.00100

Method Blank (MB)

(MB) R3231416-3 07/05/17 05:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.000342	0.00100
2-Hexanone	U		0.00137	0.0100
Isopropylbenzene	U		0.000243	0.00100
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00188	0.0100
Methyl tert-butyl ether	U		0.000212	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000234	0.00100
1,1,1,2-Tetrachloroethane	U		0.000264	0.00100
1,1,2,2-Tetrachloroethane	U		0.000365	0.00100
Tetrachloroethene	U		0.000276	0.00100
Tetrahydrofuran	U		0.00113	0.00500
Toluene	U		0.000434	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000365	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000286	0.00100
1,1,2-Trichloroethane	U		0.000277	0.00100
Trichloroethene	U		0.000279	0.00100
Trichlorofluoromethane	U		0.000382	0.00500
1,2,3-Trichloropropane	U		0.000741	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000291	0.00100
Xylenes, Total	U		0.000698	0.00300
Allyl Chloride	U		0.00150	0.00500
(S) Toluene-d8	*101*			*80.0-120*
(S) Dibromofluoromethane	*95.0*			*74.0-131*
(S) 4-Bromofluorobenzene	*95.6*			*64.0-132*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231416-1 07/05/17 04:08 • (LCSD) R3231416-2 07/05/17 04:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.124	0.120	99.2	96.4	11.0-160			2.90	23
Acrylonitrile	0.125	0.123	0.118	98.2	94.0	61.0-143			4.36	20
Benzene	0.0250	0.0219	0.0218	87.5	87.3	71.0-124			0.260	20
Bromobenzene	0.0250	0.0226	0.0229	90.6	91.4	78.0-120			0.950	20
Bromodichloromethane	0.0250	0.0238	0.0237	95.3	94.7	75.0-120			0.670	20
Bromochloromethane	0.0250	0.0243	0.0245	97.4	98.0	80.0-121			0.680	20
Bromoform	0.0250	0.0233	0.0231	93.1	92.4	65.0-133			0.690	20
Bromomethane	0.0250	0.0219	0.0213	87.7	85.3	26.0-160			2.68	20
n-Butylbenzene	0.0250	0.0242	0.0248	96.6	99.2	73.0-126			2.64	20
sec-Butylbenzene	0.0250	0.0241	0.0245	96.5	98.0	75.0-121			1.59	20
tert-Butylbenzene	0.0250	0.0245	0.0249	98.1	99.8	74.0-122			1.73	20
Carbon tetrachloride	0.0250	0.0241	0.0239	96.6	95.4	66.0-123			1.22	20
Chlorobenzene	0.0250	0.0252	0.0247	101	98.8	79.0-121			1.87	20
Chlorodibromomethane	0.0250	0.0264	0.0251	106	101	74.0-128			4.86	20
Chloroethane	0.0250	0.0216	0.0211	86.3	84.6	51.0-147			2.00	20
Chloroform	0.0250	0.0230	0.0230	92.2	92.0	73.0-123			0.180	20
Chloromethane	0.0250	0.0214	0.0211	85.7	84.6	51.0-138			1.31	20
2-Chlorotoluene	0.0250	0.0230	0.0230	91.8	92.1	72.0-124			0.300	20
4-Chlorotoluene	0.0250	0.0235	0.0235	93.9	94.1	78.0-120			0.190	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0251	0.0259	100	104	65.0-126			3.21	20
1,2-Dibromoethane	0.0250	0.0258	0.0256	103	102	78.0-122			0.680	20
Dibromomethane	0.0250	0.0242	0.0244	96.9	97.6	79.0-120			0.780	20
1,2-Dichlorobenzene	0.0250	0.0241	0.0245	96.3	98.0	80.0-120			1.68	20
1,3-Dichlorobenzene	0.0250	0.0241	0.0246	96.3	98.3	72.0-123			2.04	20
1,4-Dichlorobenzene	0.0250	0.0227	0.0228	90.7	91.2	77.0-120			0.490	20
Dichlorodifluoromethane	0.0250	0.0253	0.0256	101	102	49.0-155			1.09	20
1,1-Dichloroethane	0.0250	0.0225	0.0226	90.1	90.2	70.0-128			0.110	20
1,2-Dichloroethane	0.0250	0.0230	0.0227	92.0	90.8	69.0-128			1.30	20
1,1-Dichloroethene	0.0250	0.0234	0.0232	93.4	92.9	63.0-131			0.540	20
cis-1,2-Dichloroethene	0.0250	0.0236	0.0239	94.6	95.6	74.0-123			1.02	20
trans-1,2-Dichloroethene	0.0250	0.0237	0.0242	94.8	96.8	72.0-122			2.01	20
1,2-Dichloropropane	0.0250	0.0238	0.0233	95.2	93.1	75.0-126			2.29	20
1,1-Dichloropropene	0.0250	0.0232	0.0229	92.8	91.8	72.0-130			1.10	20
1,3-Dichloropropane	0.0250	0.0247	0.0239	98.9	95.6	80.0-121			3.34	20
cis-1,3-Dichloropropene	0.0250	0.0257	0.0239	103	95.5	80.0-125			7.42	20
trans-1,3-Dichloropropene	0.0250	0.0233	0.0216	93.3	86.5	75.0-129			7.63	20
2,2-Dichloropropane	0.0250	0.0226	0.0232	90.4	92.7	60.0-129			2.53	20
Di-isopropyl ether	0.0250	0.0225	0.0220	90.1	87.9	62.0-133			2.49	20
Ethylbenzene	0.0250	0.0238	0.0227	95.2	90.8	77.0-120			4.66	20
Ethyl ether	0.0250	0.0218	0.0217	87.1	87.0	63.0-129			0.140	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231416-1 07/05/17 04:08 • (LCSD) R3231416-2 07/05/17 04:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	0.0250	0.0248	0.0266	99.2	107	68.0-128			7.13	20
2-Hexanone	0.125	0.129	0.121	103	96.7	61.0-143			6.75	20
Isopropylbenzene	0.0250	0.0236	0.0241	94.4	96.4	75.0-120			2.14	20
p-Isopropyltoluene	0.0250	0.0245	0.0248	97.9	99.1	74.0-125			1.20	20
2-Butanone (MEK)	0.125	0.129	0.124	103	99.2	37.0-159			3.83	20
Methylene Chloride	0.0250	0.0220	0.0226	88.1	90.5	67.0-123			2.68	20
4-Methyl-2-pentanone (MIBK)	0.125	0.128	0.119	102	95.4	60.0-144			7.11	20
Methyl tert-butyl ether	0.0250	0.0233	0.0230	93.3	92.0	66.0-125			1.41	20
Naphthalene	0.0250	0.0214	0.0222	85.7	88.7	64.0-125			3.38	20
n-Propylbenzene	0.0250	0.0232	0.0233	92.8	93.2	78.0-120			0.480	20
Styrene	0.0250	0.0225	0.0222	90.0	88.6	78.0-124			1.52	20
1,1,1,2-Tetrachloroethane	0.0250	0.0257	0.0256	103	102	74.0-124			0.700	20
1,1,2,2-Tetrachloroethane	0.0250	0.0237	0.0246	95.0	98.2	73.0-120			3.35	20
Tetrachloroethene	0.0250	0.0275	0.0259	110	103	70.0-127			6.15	20
Tetrahydrofuran	0.0250	0.0214	0.0216	85.6	86.4	49.0-140			0.890	21
Toluene	0.0250	0.0236	0.0230	94.3	91.8	77.0-120			2.65	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0251	0.0246	100	98.5	64.0-135			1.88	20
1,2,3-Trichlorobenzene	0.0250	0.0232	0.0251	93.0	100	68.0-126			7.59	20
1,2,4-Trichlorobenzene	0.0250	0.0247	0.0253	99.0	101	70.0-127			2.38	20
1,1,1-Trichloroethane	0.0250	0.0238	0.0240	95.2	96.1	69.0-125			0.890	20
1,1,2-Trichloroethane	0.0250	0.0248	0.0241	99.1	96.2	78.0-120			2.91	20
Trichloroethene	0.0250	0.0252	0.0258	101	103	79.0-120			2.25	20
Trichlorofluoromethane	0.0250	0.0226	0.0229	90.5	91.4	59.0-136			1.05	20
1,2,3-Trichloropropane	0.0250	0.0262	0.0255	105	102	73.0-124			2.82	20
1,2,3-Trimethylbenzene	0.0250	0.0235	0.0239	93.9	95.8	76.0-120			1.99	20
1,2,4-Trimethylbenzene	0.0250	0.0223	0.0225	89.0	90.0	75.0-120			1.03	20
1,3,5-Trimethylbenzene	0.0250	0.0240	0.0243	96.0	97.2	75.0-120			1.19	20
Vinyl chloride	0.0250	0.0229	0.0221	91.6	88.3	63.0-134			3.65	20
Xylenes, Total	0.0750	0.0722	0.0701	96.3	93.5	77.0-120			2.95	20
(S) Toluene-d8				*100*	*97.1*	*80.0-120*				
(S) Dibromofluoromethane				*93.1*	*94.5*	*74.0-131*				
(S) 4-Bromofluorobenzene				*91.2*	*94.9*	*64.0-132*				

L919536-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919536-01 07/05/17 07:56 • (MS) R3231416-4 07/05/17 08:42 • (MSD) R3231416-5 07/05/17 09:04

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.142	ND	5.42	5.57	75.1	77.2	51	10.0-160			2.73	36
Acrylonitrile	0.142	ND	7.35	8.03	102	111	51	14.0-160			8.76	33
Benzene	0.0283	0.0963	1.13	1.26	71.3	80.8	51	13.0-146			11.5	27
Bromobenzene	0.0283	ND	1.10	1.23	76.1	85.3	51	10.0-149			11.4	33
Bromodichloromethane	0.0283	ND	1.17	1.31	80.8	91.0	51	15.0-142			11.8	28
Bromochloromethane	0.0283	ND	1.19	1.25	82.4	86.2	51	24.0-146			4.55	27
Bromoform	0.0283	ND	1.08	1.21	74.6	83.7	51	10.0-147			11.5	31
Bromomethane	0.0283	ND	0.939	1.08	65.0	74.8	51	10.0-160			14.0	32
n-Butylbenzene	0.0283	ND	1.22	1.42	82.3	96.2	51	10.0-154			15.2	37
sec-Butylbenzene	0.0283	ND	1.21	1.41	81.8	96.0	51	10.0-151			15.6	36
tert-Butylbenzene	0.0283	ND	1.21	1.40	83.6	97.1	51	10.0-152			15.0	35
Carbon tetrachloride	0.0283	ND	1.09	1.29	75.5	89.1	51	13.0-140			16.6	30
Chlorobenzene	0.0283	ND	1.18	1.37	81.4	94.6	51	10.0-149			15.0	31
Chlorodibromomethane	0.0283	ND	1.23	1.40	85.4	96.8	51	12.0-147			12.5	29
Chloroethane	0.0283	ND	0.540	0.731	37.4	50.6	51	10.0-159			30.0	33
Chloroform	0.0283	ND	1.16	1.28	80.0	88.5	51	18.0-148			10.1	28
Chloromethane	0.0283	ND	0.915	1.05	63.4	72.9	51	10.0-146			14.0	29
2-Chlorotoluene	0.0283	ND	1.10	1.27	76.0	87.6	51	10.0-151			14.1	35
4-Chlorotoluene	0.0283	ND	1.11	1.27	76.8	88.0	51	10.0-150			13.6	35
1,2-Dibromo-3-Chloropropane	0.0283	ND	1.37	1.52	94.5	105	51	10.0-149			10.9	34
1,2-Dibromoethane	0.0283	ND	1.26	1.39	86.9	96.6	51	14.0-145			10.5	28
Dibromomethane	0.0283	ND	1.17	1.33	80.6	92.0	51	18.0-144			13.2	27
1,2-Dichlorobenzene	0.0283	ND	1.21	1.37	84.0	94.7	51	10.0-153			12.0	34
1,3-Dichlorobenzene	0.0283	ND	1.16	1.31	80.2	90.9	51	10.0-150			12.5	35
1,4-Dichlorobenzene	0.0283	ND	1.11	1.23	76.9	85.0	51	10.0-148			10.1	34
Dichlorodifluoromethane	0.0283	ND	1.45	1.55	101	108	51	10.0-160			6.56	30
1,1-Dichloroethane	0.0283	ND	1.13	1.29	77.9	89.0	51	19.0-148			13.3	28
1,2-Dichloroethane	0.0283	ND	1.16	1.27	80.1	88.1	51	17.0-147			9.52	27
1,1-Dichloroethene	0.0283	ND	1.18	1.37	81.6	95.0	51	10.0-150			15.2	31
cis-1,2-Dichloroethene	0.0283	ND	1.14	1.30	79.2	90.1	51	16.0-145			13.0	28
trans-1,2-Dichloroethene	0.0283	ND	1.03	1.18	71.5	81.4	51	11.0-142			13.0	29
1,2-Dichloropropane	0.0283	ND	1.12	1.31	77.4	90.9	51	17.0-148			16.0	28
1,1-Dichloropropene	0.0283	ND	1.03	1.19	71.0	82.4	51	10.0-150			14.9	30
1,3-Dichloropropane	0.0283	ND	1.21	1.36	83.5	94.1	51	16.0-148			12.0	27
cis-1,3-Dichloropropene	0.0283	ND	1.17	1.34	80.7	93.0	51	13.0-150			14.2	28
trans-1,3-Dichloropropene	0.0283	ND	1.06	1.22	73.1	84.3	51	10.0-152			14.2	29
2,2-Dichloropropane	0.0283	ND	0.999	1.23	69.2	85.0	51	16.0-143			20.6	30
Di-isopropyl ether	0.0283	ND	1.19	1.29	82.6	89.0	51	16.0-149			7.44	28
Ethylbenzene	0.0283	0.155	1.24	1.44	74.8	89.2	51	10.0-147			15.6	31

L919536-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919536-01 07/05/17 07:56 • (MS) R3231416-4 07/05/17 08:42 • (MSD) R3231416-5 07/05/17 09:04

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ethyl ether	0.0283	ND	1.31	1.43	90.9	99.3	51	10.0-152			8.81	28
Hexachloro-1,3-butadiene	0.0283	ND	1.29	1.62	89.4	112	51	10.0-154			22.4	40
2-Hexanone	0.142	ND	6.88	7.54	95.2	104	51	12.0-158			9.19	30
Isopropylbenzene	0.0283	0.0869	1.22	1.41	78.5	91.4	51	10.0-147			14.1	33
p-Isopropyltoluene	0.0283	ND	1.25	1.45	85.0	98.7	51	10.0-156			14.6	37
2-Butanone (MEK)	0.142	ND	7.09	7.55	98.1	104	51	10.0-160			6.29	33
Methylene Chloride	0.0283	ND	1.03	1.15	71.2	79.5	51	16.0-139			11.0	29
4-Methyl-2-pentanone (MIBK)	0.142	ND	7.06	7.68	97.7	106	51	12.0-160			8.44	32
Methyl tert-butyl ether	0.0283	ND	1.20	1.34	83.0	92.7	51	21.0-145			11.1	29
Naphthalene	0.0283	0.600	1.85	1.99	86.5	95.9	51	10.0-153			7.10	36
n-Propylbenzene	0.0283	0.114	1.22	1.39	76.7	88.4	51	10.0-151			12.9	34
Styrene	0.0283	ND	1.03	1.19	71.3	82.4	51	10.0-155			14.4	34
1,1,1,2-Tetrachloroethane	0.0283	ND	1.25	1.42	86.2	98.4	51	10.0-147			13.2	30
1,1,2,2-Tetrachloroethane	0.0283	ND	1.26	1.34	87.3	92.7	51	10.0-155			6.03	31
Tetrachloroethene	0.0283	ND	1.14	1.34	79.1	92.5	51	10.0-144			15.7	32
Tetrahydrofuran	0.0283	ND	1.11	1.23	77.0	85.3	51	10.0-160			10.3	33
Toluene	0.0283	0.563	1.61	1.83	72.2	87.5	51	10.0-144			12.9	28
1,1,2-Trichlorotrifluoroethane	0.0283	ND	1.27	1.59	88.0	110	51	10.0-153			22.0	33
1,2,3-Trichlorobenzene	0.0283	ND	1.31	1.41	90.7	97.6	51	10.0-153			7.42	40
1,2,4-Trichlorobenzene	0.0283	ND	1.35	1.53	93.4	106	51	10.0-156			12.7	40
1,1,1-Trichloroethane	0.0283	ND	1.13	1.31	78.6	90.8	51	18.0-145			14.4	29
1,1,2-Trichloroethane	0.0283	ND	1.26	1.42	87.0	98.4	51	12.0-151			12.2	28
Trichloroethene	0.0283	ND	1.15	1.34	79.8	92.7	51	11.0-148			15.0	29
Trichlorofluoromethane	0.0283	ND	1.19	1.04	82.3	71.9	51	10.0-157			13.6	34
1,2,3-Trichloropropane	0.0283	ND	1.34	1.43	93.0	99.1	51	10.0-154			6.29	32
1,2,3-Trimethylbenzene	0.0283	0.0931	1.25	1.41	80.0	91.2	51	10.0-150			12.2	33
1,2,4-Trimethylbenzene	0.0283	0.221	1.29	1.45	74.2	85.1	51	10.0-151			11.5	34
1,3,5-Trimethylbenzene	0.0283	ND	1.18	1.35	78.8	90.9	51	10.0-150			13.7	33
Vinyl chloride	0.0283	ND	0.920	1.05	63.7	72.6	51	10.0-150			13.1	29
Xylenes, Total	0.0850	0.829	4.20	4.80	77.9	91.7	51	10.0-150			13.3	31
(S) Toluene-d8					*98.5*	*101*		*80.0-120*				
(S) Dibromofluoromethane					*97.5*	*94.3*		*74.0-131*				
(S) 4-Bromofluorobenzene					*95.3*	*93.1*		*64.0-132*				

Method Blank (MB)

(MB) R3231706-1 07/06/17 20:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
TPH (GC/FID) High Fraction	U		1.58	8.00
(S) Triacontane	*93.2*			*10.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231706-2 07/06/17 20:14 • (LCSD) R3231706-5 07/07/17 00:09

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
TPH (GC/FID) High Fraction	40.0	35.9	33.7	89.9	84.2	70.0-120			6.52	20
(S) Triacontane				*96.9*	*97.1*	*10.0-160*				

L920290-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L920290-01 07/06/17 22:40 • (MS) R3231706-3 07/06/17 22:51 • (MSD) R3231706-4 07/06/17 23:02

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) High Fraction	58.5	94.5	135	175	69.3	138	1	40.0-101		J3 J5	25.8	25
(S) Triacontane					*88.8*	*90.9*		*10.0-160*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

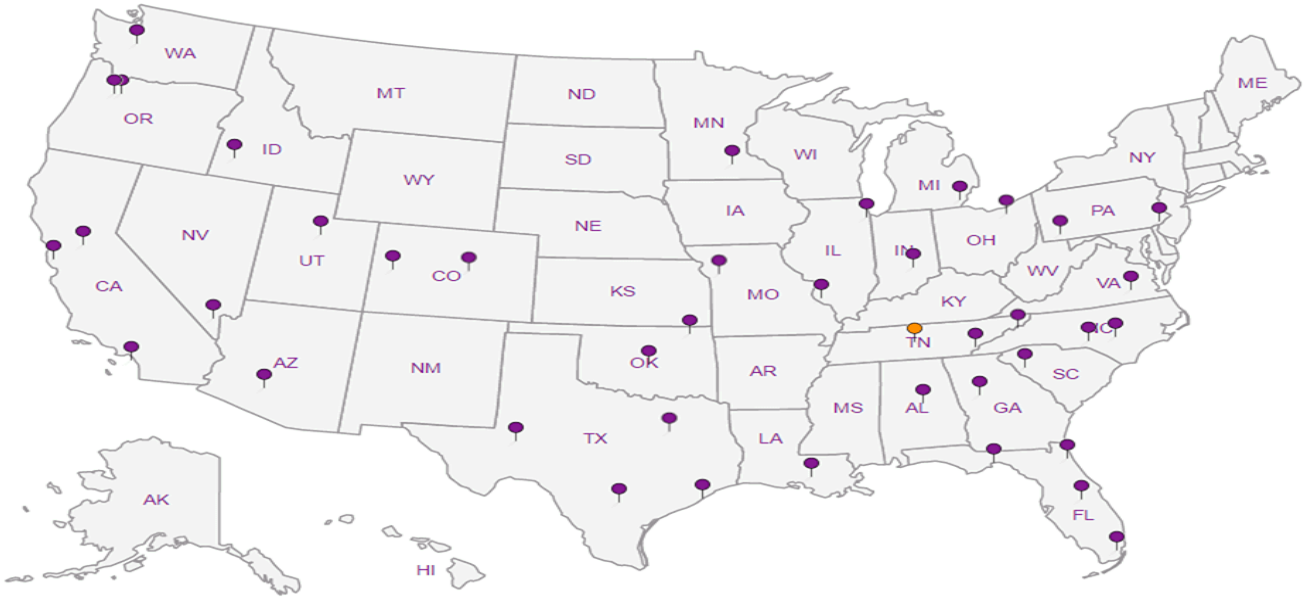
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



MSA Professional Services

332 W. Superior Street, Suite 600
Duluth, MN 55802

Billing Information:
332 W. Superior St, Ste. 600
Duluth, MN 55802

Report to: Erica Klingfus

Email To: eklingfus@msa-ps.com

Project Description: Duluth Energy Systems Michigan - 3rd Soil

City/State Collected: Duluth, MN

Phone: 218-722-3915
Fax: 218-722-4548

Client Project # 18391001

Lab Project #

Collected by (print): Erica Klingfus

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1919536

Table # C226

Acctnum: MSAPRODMN

Template:

Prelogin:

TSR: 341 - John Hawkins

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DRO	VOCs	Total Solids	RCRA Metals	Rem./Contaminant	Sample # (lab only)
GP-1 (2.5-5)	Grab	SS	2.5-5	4/27/17	1015	4	X	X	X	X		-01
GP-2 (5-7.5)	↓	↓	5-7.5	↓	1025	3	X	X	X			-02

* Matrix:
SS - Soil AIR - Air
GW - Groundwater
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: 7215 9516 9761

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	6/28/17	1430	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp: 5.8 °C Bottles Received: 7

Date: 6/29/17 Time: 0745

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

General Decision Number: MN170105 08/11/2017 MN105

Superseded General Decision Number: MN20160105

State: Minnesota

Construction Type: Heavy

County: St Louis County in Minnesota.

HEAVY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.20 for calendar year 2017 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.20 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/06/2017
1	02/03/2017
2	03/03/2017
3	04/14/2017
4	05/19/2017
5	06/23/2017
6	07/14/2017
7	07/21/2017
8	08/11/2017

BOIL0647-004 01/01/2017

	Rates	Fringes
BOILERMAKER	$ 35.65	29.89

CARP0361-020 05/01/2016

ST LOUIS COUNTY (Southern 1/3 including Cotton, Floodwood, Fond Du Lac, and Proctor)

	Rates	Fringes
CARPENTER (Including Form Work)	$ 34.57	18.16

CARP0361-021 05/01/2016

ST LOUIS (Duluth)

	Rates	Fringes
CARPENTER (Including Form Work)	$ 34.57	18.16

CARP0606-010 05/01/2015

ST LOUIS COUNTY (Northeast 2/3 including Cook, Cusson, Ely; and Western part including Chisholm, Greaney, and Orr)

	Rates	Fringes
CARPENTER (Including Form Work)	$ 34.11	17.08

ELEC0242-012 06/04/2017

ST. LOUIS (South part bounded on the north by the north line of Kelsey Township extended east & west)

	Rates	Fringes
ELECTRICIAN	$ 35.90	25.64

ELEC0294-006 05/29/2016

ST. LOUIS (North part bounded on the south by the south line of Ellsburg Township, extended east & west)

	Rates	Fringes
ELECTRICIAN	$ 35.60	71.72%

ENGI0049-064 05/01/2017

	Rates	Fringes
OPERATOR: Power Equipment		
Group 2	$ 35.54	19.70
Group 3	$ 34.99	19.70
Group 4	$ 34.69	19.70
Group 5	$ 31.65	19.70
Group 6	$ 30.44	19.70

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 2: Crane with over 135' Boom, excluding jib; Dragline & Hydraulic Backhoe with shovel-type controls, 3 cubic yards and over; Grader/Blade finishing earthwork and bituminous.

GROUP 3: Dragline & Hydraulic Backhoe with shovel-type controls up to 3 cubic yards; Loader 5 cu yd and over;

Mechanic; Tandem Scraper; Truck Crane; Crawler Crane

GROUP 4: Bituminous Roller 8 tons & over; Crusher/Crushing Plant; Drill Rig; Elevating Grader; Loader over 1 cu yd; Grader; Pump; Scraper up; to 32 cu yd; Farm Tractor with Backhoe attachment; Skid Steer Loader over 1 cu yd with Backhoe attachment; Bulldozer over 50 hp.

GROUP 5: Bituminous Roller under 8 tons; Bituminous Rubber Tire Roller; Loader up to 1 cu yd; Bulldozer 50 hp or less.

GROUP 6: Oiler; Self-Propelled Vibrating Packer 35 hp and over.

CRANE OVER 135' BOOM, EXCLUDING JIB - $ .25 PREMIUM;
CRANE OVER 200' BOOM, EXCLUDING JIB - $ .50 PREMIUM

UNDERGROUND WORK:
UNNELS, SHAFTS, ETC. - $ .25 PREMIUM
UNDER AIR PRESSURE - $ .50 PREMIUM

HAZARDOUS WASTE PROJECTS (PPE Required):
LEVEL A - $1.25 PREMIUM
LEVEL B - $ .90 PREMIUM
LEVEL C - $ .60 PREMIUM

IRON0512-028 06/05/2016

	Rates	Fringes
IRONWORKER, STRUCTURAL AND REINFORCING	$ 31.54	24.90

---

* LABO1091-006 05/01/2017

ST LOUIS (South of T. 55 N)

	Rates	Fringes
LABORERS		
(1) Common or General	$ 29.93	18.26
(2) Mason Tender Cement/Concrete	$ 30.13	18.26
(6) Pipe Layer	$ 32.43	18.26

---

* LABO1091-007 05/01/2017

SOUTHERN ST. LOUIS COUNTY

	Rates	Fringes
LABORER		
Common or General (Natural Gas Pipeline only)	$ 29.93	18.26

---

* LABO1097-002 05/01/2017

NORTHERN ST. LOUIS COUNTY

	Rates	Fringes
LABORER		
Common or General (Natural Gas Pipeline only)	$ 27.87	20.32

---

* LABO1097-005 05/01/2017

ST LOUIS (North of T. 55 N)

	Rates	Fringes
LABORERS		
(1) Common or General	$ 27.87	20.32
(2) Mason Tender Cement/Concrete	$ 28.07	20.32
(6) Pipe Layer	$ 30.37	20.32

PLAS0633-036 05/01/2017

ST. LOUIS COUNTY (North of T 55N)

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 33.95	18.13

PLAS0633-039 05/01/2017

ST. LOUIS COUNTY (South of T 55N)

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 33.95	18.13

TEAM0160-018 05/01/2017

	Rates	Fringes
TRUCK DRIVER (DUMP)		
(1) Articulated Dump Truck	$ 30.25	16.60
(2) 3 Axles/4 Axles; 5 Axles receive $0.30 additional per hour	$ 29.70	16.60
(3) Tandem Axles; & Single Axles	$ 29.60	16.60

SUMN2009-072 09/28/2009

	Rates	Fringes
LABORER: Landscape	$ 12.88	4.61

WELDERS - Receive rate prescribed for craft performing

operation to which welding is incidental.

==========

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate

changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour

Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

==========

END OF GENERAL DECISION