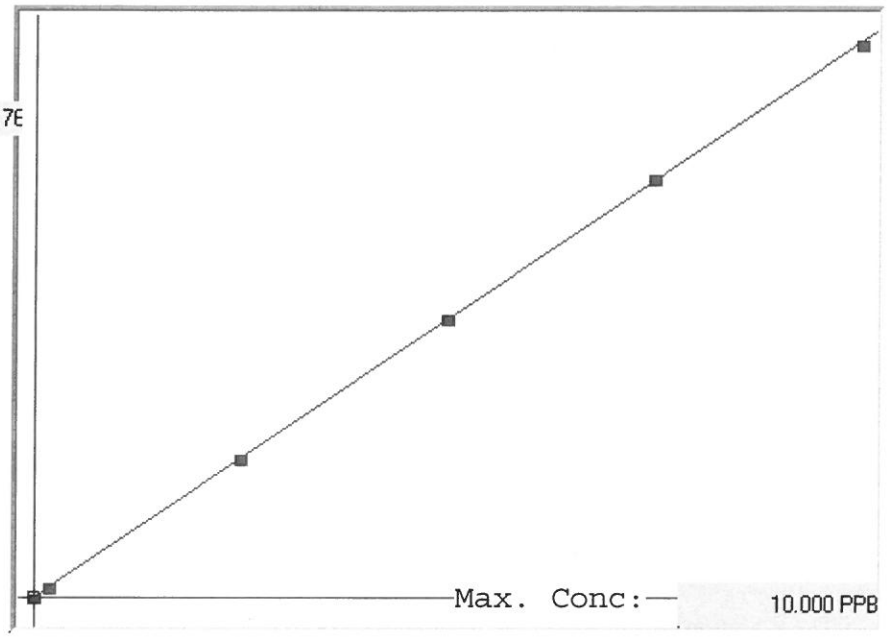
ISM02.4

MDL SOIL - ISM02.4-2018

INSTRUMENT ID: CV1

Linear



A= 0.0000e+000

B= 2.5420e-004 slope

C= 8.3350e-004 y-intercept

Rho= 0.9999741

Accept= Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0.00	0.000	-0.014	-0.014	-57	0.000	-57				
0.2	0.200	0.201	0.001	787	0.0 %	787				
2.5	2.500	2.489	-0.011	9788	0.0 %	9788				
5.0	5.000	5.022	0.022	19751	0.0 %	19751				
7.5	7.500	7.543	0.043	29668	0.0 %	29668				
10.0	10.000	9.960	-0.040	39176	0.0 %	39176				

TOD

1

0

0

1

0

NB

11/22/18

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INSTRUMENT ID : CV1

Sample ID	Extended ID	µ Abs.	Conc.		Stnd Conc	Method	Units	Date	Type
0	S0.0	-57	-		0	ISM02.4	PPB	11/22/2017 17:18	Std
0.2	S0.2	787	-		0.2	ISM02.4	PPB	11/22/2017 17:20	Std
2.5	S2.5	9788	-		2.5	ISM02.4	PPB	11/22/2017 17:23	Std
5	S5	19751	-		5	ISM02.4	PPB	11/22/2017 17:25	Std
7.5	S7.5	29668	-		7.5	ISM02.4	PPB	11/22/2017 17:27	Std
10	S10	39176	-		10	ISM02.4	PPB	11/22/2017 17:30	Std
ICV	ICV	15070	3.8317	-		ISM02.4	PPB	11/22/2017 17:32	SMPL
ICB	ICB	-221	-0.0553	-		ISM02.4	PPB	11/22/2017 17:35	SMPL
CCV086	CCV086	19664	4.9995	-		ISM02.4	PPB	11/22/2017 17:37	SMPL
CCB086	CCB086	-214	-0.0536	-		ISM02.4	PPB	11/22/2017 17:39	SMPL
PBS	PBS004	-73	-0.0177	-		ISM02.4	PPB	11/22/2017 17:41	SMPL
MDL1	MDL1	146	0.0379	-		ISM02.4	PPB	11/22/2017 17:47	SMPL
MDL2	MDL2	168	0.0435	-		ISM02.4	PPB	11/22/2017 17:49	SMPL
MDL3	MDL3	153	0.0397	-		ISM02.4	PPB	11/22/2017 17:51	SMPL
MDL4	MDL4	225	0.058	-		ISM02.4	PPB	11/22/2017 17:53	SMPL
MDL5	MDL5	209	0.054	-		ISM02.4	PPB	11/22/2017 17:56	SMPL
MDL6	MDL6	189	0.0489	-		ISM02.4	PPB	11/22/2017 17:58	SMPL
MDL7	MDL7	196	0.0507	-		ISM02.4	PPB	11/22/2017 18:00	SMPL
CCV087	CCV087	19347	4.9189	-		ISM02.4	PPB	11/22/2017 18:03	SMPL
CCB087	CCB087	-209	-0.0523	-		ISM02.4	PPB	11/22/2017 18:05	SMPL

MDL SOIL-ISM02.4-2018

CHEMTECH

Method Detection Limit (MDL) Determination

Parameter(s):	HG ISM02.4	Matrix:	SOIL
Analysis Method:	ISM02.4	Instrument:	CV1
Prep Method:	7471B	Analyst:	MOHAN

Replicates	5	6	7	8
t value	3.747	3.365	3.143	2.998

	Units: ug/L												
	Replicate Number								Blank Result ug/L	Spike Amount ug/L	t value	Raw MDL ug/L	Calculated MDL ug/L
Analytes	1	2	3	4	5	6	7	8					
Hg	0.03790	0.04350	0.03970	0.05800	0.05400	0.04890	0.05070			0.05000	3.14300	0.0234	0.0234
Replicate ID:	MDL 1	MDL 2	MDL 3	MDL 4	MDL 5	MDL 6	MDL 7	MDL 8					
Determination Date:	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017					
Preparation Date:	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017	11/22/2017					

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Analytes	Average Measured Value ug/L	Average Recovery (%R)	Standard Deviation ug/L	Spike Level Check (low) (<MDL)	Spike Level Check (high) (>10 X MDL)	Spike Level Check (high) (>5 X MDL)	Raw MDL ug/L	Calculated MDL ug/L
Hg	0.04753	95.05714	0.00746	Acceptable	Acceptable	Acceptable	0.0234	0.0234

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900

METALS PREPARATION WORKSHEET

Method# 1SM02.4 **Project#:** MDL **Hot plate temp:** 95 °C

Initial Volume/Weight 0.5 (g/mL)

IN: 11:05 OUT: 11:35

Balance Check: (0.20g): 0.209 **Final Volume** 100mL **Digestion date:** 11/22/17

Analyst Signature: MB **Supervisor Signature** [signature] **Date** 11/22/17

Standard Name	mL used	STD REF# from Log	CHEMICAL USED	mL used	LOT#
ICV	100mL	MP429440	AQUAREGIA	5mL	MP429446
CCV	100mL	MP429442	KMnO4	15mL	MP428824
			NaCl·NH4OH·HCl	6mL	MP428826

Lab Sample Number	Client Sample Number	Matrix Water,soil, leacheate	Sample WT. (g)/ Vol. (mL)	Comments
BLANK 0.0 ppb	S0.0	WATER	100mL	MP 429434
STD 0.20 ppb	S0.2	WATER	100mL	MP429435
STD 2.5 ppb	S2.5	WATER	100mL	MP429436
STD 5.0 ppb	S5.0	WATER	100mL	MP429437
STD 7.5 ppb	S7.5	WATER	100mL	MP429438
STD 10.0 ppb	S10.0	WATER	100mL	MP429439
ICV	ICV	WATER	100mL	MP429440
ICB	ICB	WATER	100mL	MP429441
CCV	CCV	WATER	100mL	MP429442
CCB	CCB	WATER	100mL	MP429443
PBS	PBS064	SOIL	0.509	0.05mL of MP429933 in 250mL flask
MDL1	MDL1	SOIL	0.509	0.05mL of MP429933 in 250mL flask
MDL2	MDL2	SOIL	0.509	0.05mL of MP429933 in 250mL flask
MDL3	MDL3	SOIL	0.509	0.05mL of MP429933 in 250mL flask
MDL4	MDL4	SOIL	0.509	0.05mL of MP429933 in 250mL flask
MDL5	MDL5	SOIL	0.509	0.05mL of MP429933 in 250mL flask
MDL6	MDL6	SOIL	0.509	0.05mL of MP429933 in 250mL flask
MDL7	MDL7	SOIL	0.509	0.05mL of MP429933 in 250mL flask