



Ward Water Pit Closure
COGCC Pit #: 104604
Rem. #: 10429

Wheat Ridge, CO

02/07/18

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Diamond Operating Inc.

Ward Water Pit Closure

SGS Job Number: DA2333

Sampling Date: 01/25/18

Report to:

Diamond Operating Inc.
6666 Gunpark Drive Suite 200
Boulder, CO 80301
davep@flatironenergy.com

ATTN: Dave Peterson

Total number of pages in report: 42



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Scott Heideman
Laboratory Director

Client Service contact: Jen Jorschumb 303-425-6021

Certifications: CO (CO00049), ID (CO00049), NE (NE-OS-06-04), ND (R-027), NJ (CO007), OK (D9942)
UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L)

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Test results relate only to samples analyzed.



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Sample Summary

Diamond Operating Inc.

Job No: DA2333

Ward Water Pit Closure

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
DA2333-1	01/25/18	15:00 SG	02/01/18	SO	Soil	BASE OF PIT-CENTER OF SE/4
DA2333-1A	01/25/18	15:00 SG	02/01/18	SO	Soil	BASE OF PIT-CENTER OF SE/4
DA2333-2	01/25/18	15:00 SG	02/01/18	SO	Soil	BASE OF PIT-CENTER OF SW/4
DA2333-2A	01/25/18	15:00 SG	02/01/18	SO	Soil	BASE OF PIT-CENTER OF SW/4
DA2333-3	01/25/18	15:00 SG	02/01/18	SO	Soil	BASE OF PIT-CENTER OF NE/4
DA2333-3A	01/25/18	15:00 SG	02/01/18	SO	Soil	BASE OF PIT-CENTER OF NE/4
DA2333-4	01/25/18	15:00 SG	02/01/18	SO	Soil	BASE OF PIT-CENTER OF NW/4
DA2333-4A	01/25/18	15:00 SG	02/01/18	SO	Soil	BASE OF PIT-CENTER OF NW/4
DA2333-5	01/25/18	15:00 SG	02/01/18	SO	Soil	BACKGROUND-30' NORTH OF PIT
DA2333-5A	01/25/18	15:00 SG	02/01/18	SO	Soil	BACKGROUND-30' NORTH OF PIT
DA2333-6	01/25/18	15:00 SG	02/01/18	SO	Soil	BACKGROUND-60' WEST OF PIT
DA2333-6A	01/25/18	15:00 SG	02/01/18	SO	Soil	BACKGROUND-60' WEST OF PIT

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Diamond Operating Inc.

Job No DA2333

Site: Ward Water Pit Closure

Report Date 2/7/2018 4:35:00 PM

On 02/01/2018, 6 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.9 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA2333 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP24097

- * All samples were digested and analyzed within the recommended method holding time.
- * All method blanks for this batch meet method specific criteria.
- * Sample(s) DA2333-1AMS, DA2333-1AMSD, DA2333-1ASDL were used as the QC samples for the metals analysis.

General Chemistry By Method SM2540G-2011 M

Matrix: SO **Batch ID:** GN41866

- * Sample(s) DA2333-6DUP were used as the QC samples for the Solids, Percent analysis.

General Chemistry By Method SW846 9045D

Matrix: SO **Batch ID:** GN41871

- * The following samples were run outside of holding time for method SW846 9045D: DA2333-1, DA2333-2, DA2333-3, DA2333-4, DA2333-5, DA2333-6 Analysis performed past recommended hold time.

General Chemistry By Method USDA HANDBOOK 60

Matrix: SO **Batch ID:** MP24097

- * DA2333-1A and -6A for Sodium Adsorption Ratio: Calculated as: $(\text{Na meq/L}) / \sqrt{[(\text{Ca meq/L}) + (\text{Mg meq/L})/2]}$

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: DA2333
 Account: Diamond Operating Inc.
 Project: Ward Water Pit Closure
 Collected: 01/25/18



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA2333-1	BASE OF PIT-CENTER OF SE/4					
Specific Conductivity		632	1.0		umhos/cm	SM 2510B-2011 MOD
pH ^a		8.17			su	SW846 9045D
DA2333-1A	BASE OF PIT-CENTER OF SE/4					
Calcium		79.3	2.0		mg/l	SW846 6010C
Magnesium		12.9	1.0		mg/l	SW846 6010C
Sodium		33.4	2.0		mg/l	SW846 6010C
Sodium Adsorption Ratio ^b		0.916			ratio	USDA HANDBOOK 60
DA2333-2	BASE OF PIT-CENTER OF SW/4					
Specific Conductivity		978	1.0		umhos/cm	SM 2510B-2011 MOD
pH ^a		8.25			su	SW846 9045D
DA2333-2A	BASE OF PIT-CENTER OF SW/4					
Calcium		124	2.0		mg/l	SW846 6010C
Magnesium		20.2	1.0		mg/l	SW846 6010C
Sodium		41.8	2.0		mg/l	SW846 6010C
Sodium Adsorption Ratio ^b		0.917			ratio	USDA HANDBOOK 60
DA2333-3	BASE OF PIT-CENTER OF NE/4					
Specific Conductivity		507	1.0		umhos/cm	SM 2510B-2011 MOD
pH ^a		8.54			su	SW846 9045D
DA2333-3A	BASE OF PIT-CENTER OF NE/4					
Calcium		57.4	2.0		mg/l	SW846 6010C
Magnesium		8.48	1.0		mg/l	SW846 6010C
Sodium		22.4	2.0		mg/l	SW846 6010C
Sodium Adsorption Ratio ^b		0.729			ratio	USDA HANDBOOK 60
DA2333-4	BASE OF PIT-CENTER OF NW/4					
Specific Conductivity		441	1.0		umhos/cm	SM 2510B-2011 MOD
pH ^a		8.57			su	SW846 9045D
DA2333-4A	BASE OF PIT-CENTER OF NW/4					
Calcium		55.1	2.0		mg/l	SW846 6010C
Magnesium		8.51	1.0		mg/l	SW846 6010C

Summary of Hits

Job Number: DA2333
Account: Diamond Operating Inc.
Project: Ward Water Pit Closure
Collected: 01/25/18



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Sodium		29.1	2.0		mg/l	SW846 6010C
Sodium Adsorption Ratio ^b		0.963			ratio	USDA HANDBOOK 60
DA2333-5 BACKGROUND-30' NORTH OF PIT						
Specific Conductivity		746	1.0		umhos/cm	SM 2510B-2011 MOD
pH ^a		8.22			su	SW846 9045D
DA2333-5A BACKGROUND-30' NORTH OF PIT						
Calcium		97.2	2.0		mg/l	SW846 6010C
Magnesium		15.5	1.0		mg/l	SW846 6010C
Sodium		32.1	2.0		mg/l	SW846 6010C
Sodium Adsorption Ratio ^b		0.797			ratio	USDA HANDBOOK 60
DA2333-6 BACKGROUND-60' WEST OF PIT						
Specific Conductivity		1430	1.0		umhos/cm	SM 2510B-2011 MOD
pH ^a		8.40			su	SW846 9045D
DA2333-6A BACKGROUND-60' WEST OF PIT						
Calcium		187	2.0		mg/l	SW846 6010C
Magnesium		23.1	1.0		mg/l	SW846 6010C
Sodium		36.6	2.0		mg/l	SW846 6010C
Sodium Adsorption Ratio ^b		0.671			ratio	USDA HANDBOOK 60

(a) Analysis performed past recommended hold time.

(b) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BASE OF PIT-CENTER OF SE/4	Date Sampled:	01/25/18
Lab Sample ID:	DA2333-1	Date Received:	02/01/18
Matrix:	SO - Soil	Percent Solids:	91.9
Project:	Ward Water Pit Closure		

4.1
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	91.9		%	1	02/06/18	SWT	SM2540G-2011 M
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	632	1.0	umhos/cm	1	02/02/18	JD	SM 2510B-2011 MOD
pH ^a	8.17		su	1	02/06/18 11:12	JD	SW846 9045D

(a) Analysis performed past recommended hold time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: BASE OF PIT-CENTER OF SE/4	Date Sampled: 01/25/18
Lab Sample ID: DA2333-1A	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 91.9
Project: Ward Water Pit Closure	

4.2
4

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	79.3	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Magnesium	12.9	1.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Sodium	33.4	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²

(1) Instrument QC Batch: MA9558

(2) Prep QC Batch: MP24097

RL = Reporting Limit

Report of Analysis

Client Sample ID: BASE OF PIT-CENTER OF SE/4	Date Sampled: 01/25/18
Lab Sample ID: DA2333-1A	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 91.9
Project: Ward Water Pit Closure	

4.2
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	0.916		ratio	1	02/05/18 17:31	AO	USDA HANDBOOK 60

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

Client Sample ID: BASE OF PIT-CENTER OF SW/4	Date Sampled: 01/25/18
Lab Sample ID: DA2333-2	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 92.3
Project: Ward Water Pit Closure	

4.3
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	92.3		%	1	02/06/18	SWT	SM2540G-2011 M
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	978	1.0	umhos/cm	1	02/02/18	JD	SM 2510B-2011 MOD
pH ^a	8.25		su	1	02/06/18 11:12	JD	SW846 9045D

(a) Analysis performed past recommended hold time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: BASE OF PIT-CENTER OF SW/4	Date Sampled: 01/25/18
Lab Sample ID: DA2333-2A	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 92.3
Project: Ward Water Pit Closure	

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	124	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Magnesium	20.2	1.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Sodium	41.8	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²

(1) Instrument QC Batch: MA9558

(2) Prep QC Batch: MP24097

RL = Reporting Limit

4.4
4

Report of Analysis

Client Sample ID: BASE OF PIT-CENTER OF SW/4	Date Sampled: 01/25/18
Lab Sample ID: DA2333-2A	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 92.3
Project: Ward Water Pit Closure	

4.4
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	0.917		ratio	1	02/05/18 18:13	AO	USDA HANDBOOK 60

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

Client Sample ID: BASE OF PIT-CENTER OF NE/4	Date Sampled: 01/25/18
Lab Sample ID: DA2333-3	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 93.3
Project: Ward Water Pit Closure	

4.5
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids Solids, Percent	93.3		%	1	02/06/18	SWT	SM2540G-2011 M
prep: DEPT.OF AG, BOOK N9 Specific Conductivity	507	1.0	umhos/cm	1	02/02/18	JD	SM 2510B-2011 MOD
pH ^a	8.54		su	1	02/06/18 11:12	JD	SW846 9045D

(a) Analysis performed past recommended hold time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: BASE OF PIT-CENTER OF NE/4	Date Sampled: 01/25/18
Lab Sample ID: DA2333-3A	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 93.3
Project: Ward Water Pit Closure	

4.6
4

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	57.4	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Magnesium	8.48	1.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Sodium	22.4	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²

(1) Instrument QC Batch: MA9558

(2) Prep QC Batch: MP24097

RL = Reporting Limit

Report of Analysis

Client Sample ID: BASE OF PIT-CENTER OF NE/4	Date Sampled: 01/25/18
Lab Sample ID: DA2333-3A	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 93.3
Project: Ward Water Pit Closure	

4.6
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	0.729		ratio	1	02/05/18 18:38	AO	USDA HANDBOOK 60

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

Client Sample ID: BASE OF PIT-CENTER OF NW/4	Date Sampled: 01/25/18
Lab Sample ID: DA2333-4	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 92.9
Project: Ward Water Pit Closure	

4.7
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	92.9		%	1	02/06/18	SWT	SM2540G-2011 M
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	441	1.0	umhos/cm	1	02/02/18	JD	SM 2510B-2011 MOD
pH ^a	8.57		su	1	02/06/18 11:12	JD	SW846 9045D

(a) Analysis performed past recommended hold time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: BASE OF PIT-CENTER OF NW/4	Date Sampled: 01/25/18
Lab Sample ID: DA2333-4A	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 92.9
Project: Ward Water Pit Closure	

4.8
4

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	55.1	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Magnesium	8.51	1.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Sodium	29.1	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²

- (1) Instrument QC Batch: MA9558
- (2) Prep QC Batch: MP24097

RL = Reporting Limit

Report of Analysis

Client Sample ID: BASE OF PIT-CENTER OF NW/4	Date Sampled: 01/25/18
Lab Sample ID: DA2333-4A	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 92.9
Project: Ward Water Pit Closure	

4.8
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	0.963		ratio	1	02/05/18 18:44	AO	USDA HANDBOOK 60

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BACKGROUND-30' NORTH OF PIT	Date Sampled:	01/25/18
Lab Sample ID:	DA2333-5	Date Received:	02/01/18
Matrix:	SO - Soil	Percent Solids:	94.0
Project:	Ward Water Pit Closure		

4.9
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	94		%	1	02/06/18	SWT	SM2540G-2011 M
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	746	1.0	umhos/cm	1	02/02/18	JD	SM 2510B-2011 MOD
pH ^a	8.22		su	1	02/06/18 11:12	JD	SW846 9045D

(a) Analysis performed past recommended hold time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: BACKGROUND-30' NORTH OF PIT	Date Sampled: 01/25/18
Lab Sample ID: DA2333-5A	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 94.0
Project: Ward Water Pit Closure	

4.10
4

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	97.2	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Magnesium	15.5	1.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Sodium	32.1	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²

(1) Instrument QC Batch: MA9558

(2) Prep QC Batch: MP24097

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BACKGROUND-30' NORTH OF PIT	Date Sampled:	01/25/18
Lab Sample ID:	DA2333-5A	Date Received:	02/01/18
Matrix:	SO - Soil	Percent Solids:	94.0
Project:	Ward Water Pit Closure		

4.10
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	0.797		ratio	1	02/05/18 18:50	AO	USDA HANDBOOK 60

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Report of Analysis

Client Sample ID: BACKGROUND-60' WEST OF PIT	Date Sampled: 01/25/18
Lab Sample ID: DA2333-6	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 91.9
Project: Ward Water Pit Closure	

4.11
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	91.9		%	1	02/06/18	SWT	SM2540G-2011 M
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	1430	1.0	umhos/cm	1	02/02/18	JD	SM 2510B-2011 MOD
pH ^a	8.40		su	1	02/06/18 11:12	JD	SW846 9045D

(a) Analysis performed past recommended hold time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: BACKGROUND-60' WEST OF PIT	Date Sampled: 01/25/18
Lab Sample ID: DA2333-6A	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 91.9
Project: Ward Water Pit Closure	

4.12
4

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	187	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Magnesium	23.1	1.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²
Sodium	36.6	2.0	mg/l	1	02/05/18	02/05/18 AO	SW846 6010C ¹	SW846 3010A/M ²

- (1) Instrument QC Batch: MA9558
- (2) Prep QC Batch: MP24097

RL = Reporting Limit

Report of Analysis

Client Sample ID: BACKGROUND-60' WEST OF PIT	Date Sampled: 01/25/18
Lab Sample ID: DA2333-6A	Date Received: 02/01/18
Matrix: SO - Soil	Percent Solids: 91.9
Project: Ward Water Pit Closure	

4.12
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	0.671		ratio	1	02/05/18 18:56	AO	USDA HANDBOOK 60

(a) Calculated as: $(Na \text{ meq/L}) / \sqrt{[(Ca \text{ meq/L}) + (Mg \text{ meq/L})/2]}$

RL = Reporting Limit

Misc. Forms



Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



ACCUTEST

CHAIN OF CUSTODY

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.accutest.com

FED-EX Tracking #
SGS Account Quote #
Bottle Order Control #
SGS Account Job # DA2333

Client / Reporting Information, Project Information, Requested Analysis, Matrix Codes, Collection table, Turnaround Time, Data Deliverable Information, Sample Custody, Relinquished by sections.

5.1 5

DA2333: Chain of Custody

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