



Jolly, Becky <becky.jolly@dnr.iowa.gov>

Re: [EXTERNAL] Denial of permit amendment

1 message

Shirley, Daniel <Daniel.Shirley@valentbiosciences.com>

Mon, May 18, 2026 at 10:16 AM

To: "Stiner, Theresa" <theresa.stiner@dnr.iowa.gov>

Cc: "Daneshvar, Hessam" <Hessam.Daneshvar@valentbiosciences.com>, Becky Jolly <becky.jolly@dnr.iowa.gov>

Theresa please see the attached report for sludge analysis on new waste stream.

The Application rate is up to 14,985 gallons per acre, per Permit Number: 66-SDP-06-16P-LAN

does not pass paint filter test and material is the result of wastewater treatment.

Could we please resubmit for amendment?

Let me know if anything else is needed from us.

Dan Shirley
Maintenance Manager
Sumitomo Biorational

Office: 641-832-2384 | Mobile: 641-832-0765

From: Stiner, Theresa <theresa.stiner@dnr.iowa.gov>**Sent:** Tuesday, April 7, 2026 3:41 PM**To:** Shirley, Daniel <Daniel.Shirley@valentbiosciences.com>**Cc:** Daneshvar, Hessam <Hessam.Daneshvar@valentbiosciences.com>; Becky Jolly <becky.jolly@dnr.iowa.gov>**Subject:** [EXTERNAL] Denial of permit amendment

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Mr. Shirley;

Please see the attached denial of the request to amend the land application permit for Mitchell County Pretreatment Facility, 66-SDP-06-16. If you have any questions please feel free to contact me.

Theresa Stiner, CPM
Environmental Specialist Senior
Solid Waste and Contaminated Sites Section
Iowa Department of Natural Resources
6200 Park Ave. Ste 200, Des Moines, IA 50321

515-721-7979 mobile

Theresa.Stiner@dnr.iowa.gov

www.iowadnr.gov



 **J331254-1 UDS Level 1 Report Final Report.pdf**
867K

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Dan Shirley
Valent BioSciences LLC
2142 350th St.
Osage, Iowa 50461
Generated 5/14/2026 1:53:38 PM

JOB DESCRIPTION

Sludge Tank

JOB NUMBER

310-331254-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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5/14/2026 1:53:38 PM

Authorized for release by
Conner Calhoun, Client Service Manager
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(319)277-2401



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Case Narrative

Client: Valent BioSciences LLC
Project: Sludge Tank

Job ID: 310-331254-1

Job ID: 310-331254-1

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Job Narrative 310-331254-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 5/5/2026 2:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 6010D: The method blank for preparation batch 500-865722 and analytical batch 500-865953 contained Nickel and Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: Valent BioSciences LLC
Project/Site: Sludge Tank

Job ID: 310-331254-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-331254-1	P2061	Solid	05/05/26 09:00	05/05/26 14:20	Iowa
310-331254-2	P2062	Solid	05/05/26 09:00	05/05/26 14:20	Iowa
310-331254-3	P2063	Solid	05/05/26 09:00	05/05/26 14:20	Iowa
310-331254-4	P2064	Solid	05/05/26 09:00	05/05/26 14:20	Iowa

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: Valent BioSciences LLC
Project/Site: Sludge Tank

Job ID: 310-331254-1

Client Sample ID: P2061

Lab Sample ID: 310-331254-1

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 6.4

Method: SW846 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<79.0		310	79.0	mg/Kg	✳		05/12/26 21:58	10
Nitrite as N	68.9	J	310	66.6	mg/Kg	✳		05/12/26 21:58	10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<4.87		14.3	4.87	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Cadmium	<0.513		2.85	0.513	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Calcium	207	J	285	48.3	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Chromium	<7.06		14.3	7.06	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Copper	15.0		14.3	3.99	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Iron	<148		285	148	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Lead	<3.29		7.13	3.29	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Magnesium	1020		143	70.7	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Manganese	59.5		14.3	2.07	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Molybdenum	31.2		14.3	5.91	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Nickel	4.88	J	14.3	4.15	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Potassium	5020		713	252	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Selenium	<8.38		14.3	8.38	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Sodium	16100	B	1430	211	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Sulfur	3580		356	171	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1
Zinc	56.3	B	28.5	12.5	mg/Kg	✳	05/11/26 10:16	05/12/26 02:51	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0955		0.231	0.0955	mg/Kg	✳	05/13/26 17:55	05/14/26 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	4930		711	355	mg/Kg	✳	05/07/26 10:23	05/07/26 22:42	1
Total Kjeldahl Nitrogen (EPA 351.2)	2850		286	168	mg/Kg		05/07/26 06:12	05/07/26 18:19	1
Total Phosphorus as P (EPA 365.1)	3110	F1	156	114	mg/Kg	✳	05/12/26 10:49	05/12/26 19:36	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	8.59	HF	1.00	1.00	SU			05/06/26 08:06	1
Percent Moisture (EPA Moisture)	93.6		0.1	0.1	%			05/06/26 05:15	1
Percent Solids (EPA Moisture)	6.4		0.1	0.1	%			05/06/26 05:15	1
Total Solids (SM 2540G)	6.41		0.100	0.100	%			05/06/26 06:15	1
Total Volatile Solids (SM 2540G)	86.6		0.0100	0.0100	%			05/06/26 06:15	1

Client Sample ID: P2062

Lab Sample ID: 310-331254-2

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 6.0

Method: SW846 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<84.8		332	84.8	mg/Kg	✳		05/12/26 22:11	10
Nitrite as N	<71.5		332	71.5	mg/Kg	✳		05/12/26 22:11	10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<5.45		15.9	5.45	mg/Kg	✳	05/11/26 10:16	05/12/26 02:55	1
Cadmium	<0.574		3.19	0.574	mg/Kg	✳	05/11/26 10:16	05/12/26 02:55	1

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Client Sample Results

Client: Valent BioSciences LLC
Project/Site: Sludge Tank

Job ID: 310-331254-1

Client Sample ID: P2062

Lab Sample ID: 310-331254-2

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 6.0

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	258	J	319	54.0	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Chromium	<7.89		15.9	7.89	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Copper	18.6		15.9	4.46	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Iron	<166		319	166	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Lead	<3.68		7.97	3.68	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Magnesium	1370		159	79.1	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Manganese	70.0		15.9	2.31	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Molybdenum	31.3		15.9	6.62	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Nickel	4.85	J	15.9	4.64	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Potassium	5710		797	282	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Selenium	<9.37		15.9	9.37	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Sodium	14100	B	1590	236	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Sulfur	4000		399	191	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1
Zinc	66.4	B	31.9	14.0	mg/Kg	☼	05/11/26 10:16	05/12/26 02:55	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.111		0.269	0.111	mg/Kg	☼	05/13/26 17:55	05/14/26 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	5390		829	415	mg/Kg	☼	05/07/26 10:23	05/07/26 22:44	1
Total Kjeldahl Nitrogen (EPA 351.2)	2740		294	173	mg/Kg		05/07/26 06:12	05/07/26 18:20	1
Total Phosphorus as P (EPA 365.1)	3380		157	115	mg/Kg	☼	05/12/26 10:49	05/12/26 19:38	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	8.57	HF	1.00	1.00	SU			05/06/26 08:07	1
Percent Moisture (EPA Moisture)	94.0		0.1	0.1	%			05/06/26 05:15	1
Percent Solids (EPA Moisture)	6.0		0.1	0.1	%			05/06/26 05:15	1
Total Solids (SM 2540G)	6.02		0.100	0.100	%			05/06/26 06:15	1
Total Volatile Solids (SM 2540G)	88.2		0.0100	0.0100	%			05/06/26 06:15	1

Client Sample ID: P2063

Lab Sample ID: 310-331254-3

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 7.2

Method: SW846 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<70.3		275	70.3	mg/Kg	☼		05/12/26 22:24	10
Nitrite as N	<59.2		275	59.2	mg/Kg	☼		05/12/26 22:24	10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<4.44		13.0	4.44	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Cadmium	<0.467		2.59	0.467	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Calcium	238	J	259	44.0	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Chromium	<6.42		13.0	6.42	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Copper	11.2	J	13.0	3.63	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Iron	<135		259	135	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Lead	<3.00		6.49	3.00	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Magnesium	1040		130	64.4	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1

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Client Sample Results

Client: Valent BioSciences LLC
Project/Site: Sludge Tank

Job ID: 310-331254-1

Client Sample ID: P2063

Lab Sample ID: 310-331254-3

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 7.2

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	55.2		13.0	1.88	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Molybdenum	22.4		13.0	5.38	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Nickel	<3.78		13.0	3.78	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Potassium	4720		649	230	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Selenium	<7.63		13.0	7.63	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Sodium	23800	B	1300	192	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Sulfur	3210		324	156	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1
Zinc	54.2	B	25.9	11.4	mg/Kg	☼	05/11/26 10:16	05/12/26 03:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0867		0.210	0.0867	mg/Kg	☼	05/13/26 17:55	05/14/26 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	4100		661	331	mg/Kg	☼	05/07/26 10:23	05/07/26 22:45	1
Total Kjeldahl Nitrogen (EPA 351.2)	2950		234	138	mg/Kg		05/07/26 06:12	05/07/26 18:20	1
Total Phosphorus as P (EPA 365.1)	2540		130	95.1	mg/Kg	☼	05/12/26 10:49	05/12/26 19:38	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	8.68	HF	1.00	1.00	SU			05/06/26 08:08	1
Percent Moisture (EPA Moisture)	92.8		0.1	0.1	%			05/06/26 05:15	1
Percent Solids (EPA Moisture)	7.2		0.1	0.1	%			05/06/26 05:15	1
Total Solids (SM 2540G)	7.19		0.100	0.100	%			05/06/26 06:15	1
Total Volatile Solids (SM 2540G)	83.6		0.0100	0.0100	%			05/06/26 06:15	1

Client Sample ID: P2064

Lab Sample ID: 310-331254-4

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 5.5

Method: SW846 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<88.0		345	88.0	mg/Kg	☼		05/12/26 22:37	10
Nitrite as N	<74.2		345	74.2	mg/Kg	☼		05/12/26 22:37	10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<5.78		16.9	5.78	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Cadmium	<0.608		3.38	0.608	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Calcium	1540		338	57.3	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Chromium	<8.36		16.9	8.36	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Copper	18.5		16.9	4.73	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Iron	1360		338	176	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Lead	<3.90		8.45	3.90	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Magnesium	2050		169	83.8	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Manganese	105		16.9	2.45	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Molybdenum	31.6		16.9	7.01	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Nickel	<4.92		16.9	4.92	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Potassium	6020		845	299	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Selenium	<9.93		16.9	9.93	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Sodium	19900	B	1690	250	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1

Eurofins Cedar Falls

Client Sample Results

Client: Valent BioSciences LLC
Project/Site: Sludge Tank

Job ID: 310-331254-1

Client Sample ID: P2064

Lab Sample ID: 310-331254-4

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 5.5

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfur	4280		422	203	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1
Zinc	73.3	B	33.8	14.8	mg/Kg	☼	05/11/26 10:16	05/12/26 03:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.108		0.260	0.108	mg/Kg	☼	05/13/26 17:55	05/14/26 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	4480		881	440	mg/Kg	☼	05/07/26 10:23	05/07/26 22:49	1
Total Kjeldahl Nitrogen (EPA 351.2)	2820		213	125	mg/Kg		05/07/26 06:12	05/07/26 18:21	1
Total Phosphorus as P (EPA 365.1)	3260		175	128	mg/Kg	☼	05/12/26 10:49	05/12/26 19:38	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	6.73	HF	1.00	1.00	SU			05/06/26 08:09	1
Percent Moisture (EPA Moisture)	94.5		0.1	0.1	%			05/06/26 05:15	1
Percent Solids (EPA Moisture)	5.5		0.1	0.1	%			05/06/26 05:15	1
Total Solids (SM 2540G)	5.53		0.100	0.100	%			05/06/26 06:15	1
Total Volatile Solids (SM 2540G)	85.1		0.0100	0.0100	%			05/06/26 06:15	1

Lab Chronicle

Client: Valent BioSciences LLC
Project/Site: Sludge Tank

Job ID: 310-331254-1

Client Sample ID: P2061

Lab Sample ID: 310-331254-1

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	351.2			488163	W9YR	EET CF	05/07/26 06:12
Total/NA	Analysis	351.2		1	488292	ZJX4	EET CF	05/07/26 18:19
Total/NA	Analysis	9040C		1	488027	W9YR	EET CF	05/06/26 08:06
Total/NA	Analysis	Moisture		1	488003	DGU1	EET CF	05/06/26 05:15
Total/NA	Analysis	SM 2540G		1	488005	DGU1	EET CF	05/06/26 06:15

Client Sample ID: P2061

Lab Sample ID: 310-331254-1

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 6.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			488641	HE7K	EET CF	05/12/26 08:54
Soluble	Analysis	9056A		10	488827	HE7K	EET CF	05/12/26 21:58
Total/NA	Prep	3050B			865722	BDE	EET CHI	05/11/26 10:16 - 05/11/26 16:16 ¹
Total/NA	Analysis	6010D		1	865953	SJ	EET CHI	05/12/26 02:51
Total/NA	Prep	7471B			866333	MJG	EET CHI	05/13/26 17:55
Total/NA	Analysis	7471B		1	866517	MJG	EET CHI	05/14/26 11:23
Total/NA	Prep	Distill/Ammonia			488226	ENB7	EET CF	05/07/26 10:23
Total/NA	Analysis	350.1		1	488296	ZJX4	EET CF	05/07/26 22:42
Total/NA	Prep	365.2/365.3/365			488678	WZC8	EET CF	05/12/26 10:49
Total/NA	Analysis	365.1		1	488752	ZJX4	EET CF	05/12/26 19:36

Client Sample ID: P2062

Lab Sample ID: 310-331254-2

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	351.2			488163	W9YR	EET CF	05/07/26 06:12
Total/NA	Analysis	351.2		1	488292	ZJX4	EET CF	05/07/26 18:20
Total/NA	Analysis	9040C		1	488027	W9YR	EET CF	05/06/26 08:07
Total/NA	Analysis	Moisture		1	488003	DGU1	EET CF	05/06/26 05:15
Total/NA	Analysis	SM 2540G		1	488005	DGU1	EET CF	05/06/26 06:15

Client Sample ID: P2062

Lab Sample ID: 310-331254-2

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 6.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			488641	HE7K	EET CF	05/12/26 08:54
Soluble	Analysis	9056A		10	488827	HE7K	EET CF	05/12/26 22:11
Total/NA	Prep	3050B			865722	BDE	EET CHI	05/11/26 10:16 - 05/11/26 16:16 ¹
Total/NA	Analysis	6010D		1	865953	SJ	EET CHI	05/12/26 02:55
Total/NA	Prep	7471B			866333	MJG	EET CHI	05/13/26 17:55
Total/NA	Analysis	7471B		1	866517	MJG	EET CHI	05/14/26 11:25

Eurofins Cedar Falls

Lab Chronicle

Client: Valent BioSciences LLC
Project/Site: Sludge Tank

Job ID: 310-331254-1

Client Sample ID: P2062

Lab Sample ID: 310-331254-2

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 6.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Distill/Ammonia			488226	ENB7	EET CF	05/07/26 10:23
Total/NA	Analysis	350.1		1	488296	ZJX4	EET CF	05/07/26 22:44
Total/NA	Prep	365.2/365.3/365			488678	WZC8	EET CF	05/12/26 10:49
Total/NA	Analysis	365.1		1	488752	ZJX4	EET CF	05/12/26 19:38

Client Sample ID: P2063

Lab Sample ID: 310-331254-3

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	351.2			488163	W9YR	EET CF	05/07/26 06:12
Total/NA	Analysis	351.2		1	488292	ZJX4	EET CF	05/07/26 18:20
Total/NA	Analysis	9040C		1	488027	W9YR	EET CF	05/06/26 08:08
Total/NA	Analysis	Moisture		1	488003	DGU1	EET CF	05/06/26 05:15
Total/NA	Analysis	SM 2540G		1	488005	DGU1	EET CF	05/06/26 06:15

Client Sample ID: P2063

Lab Sample ID: 310-331254-3

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 7.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			488641	HE7K	EET CF	05/12/26 08:54
Soluble	Analysis	9056A		10	488827	HE7K	EET CF	05/12/26 22:24
Total/NA	Prep	3050B			865722	BDE	EET CHI	05/11/26 10:16 - 05/11/26 16:16 ¹
Total/NA	Analysis	6010D		1	865953	SJ	EET CHI	05/12/26 03:00
Total/NA	Prep	7471B			866333	MJG	EET CHI	05/13/26 17:55
Total/NA	Analysis	7471B		1	866517	MJG	EET CHI	05/14/26 11:33
Total/NA	Prep	Distill/Ammonia			488226	ENB7	EET CF	05/07/26 10:23
Total/NA	Analysis	350.1		1	488296	ZJX4	EET CF	05/07/26 22:45
Total/NA	Prep	365.2/365.3/365			488678	WZC8	EET CF	05/12/26 10:49
Total/NA	Analysis	365.1		1	488752	ZJX4	EET CF	05/12/26 19:38

Client Sample ID: P2064

Lab Sample ID: 310-331254-4

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	351.2			488163	W9YR	EET CF	05/07/26 06:12
Total/NA	Analysis	351.2		1	488292	ZJX4	EET CF	05/07/26 18:21
Total/NA	Analysis	9040C		1	488027	W9YR	EET CF	05/06/26 08:09
Total/NA	Analysis	Moisture		1	488003	DGU1	EET CF	05/06/26 05:15
Total/NA	Analysis	SM 2540G		1	488005	DGU1	EET CF	05/06/26 06:15

Lab Chronicle

Client: Valent BioSciences LLC
Project/Site: Sludge Tank

Job ID: 310-331254-1

Client Sample ID: P2064

Lab Sample ID: 310-331254-4

Date Collected: 05/05/26 09:00

Matrix: Solid

Date Received: 05/05/26 14:20

Percent Solids: 5.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			488641	HE7K	EET CF	05/12/26 08:54
Soluble	Analysis	9056A		10	488827	HE7K	EET CF	05/12/26 22:37
Total/NA	Prep	3050B			865722	BDE	EET CHI	05/11/26 10:16 - 05/11/26 16:16 ¹
Total/NA	Analysis	6010D		1	865953	SJ	EET CHI	05/12/26 03:04
Total/NA	Prep	7471B			866333	MJG	EET CHI	05/13/26 17:55
Total/NA	Analysis	7471B		1	866517	MJG	EET CHI	05/14/26 11:35
Total/NA	Prep	Distill/Ammonia			488226	ENB7	EET CF	05/07/26 10:23
Total/NA	Analysis	350.1		1	488296	ZJX4	EET CF	05/07/26 22:49
Total/NA	Prep	365.2/365.3/365			488678	WZC8	EET CF	05/12/26 10:49
Total/NA	Analysis	365.1		1	488752	ZJX4	EET CF	05/12/26 19:38

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Definitions/Glossary

Client: Valent BioSciences LLC
Project/Site: Sludge Tank

Job ID: 310-331254-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Valent BioSciences LLC
 Project/Site: Sludge Tank

Job ID: 310-331254-1

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-27
The following analytes are included in this report, but the laboratory is not certified by Iowa State 007. This list may include analytes for which the agency does not offer certification :			
Analysis Method	Prep Method	Matrix	Analyte
9040C		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-27
Georgia (DW)	State	939	05-31-26
Illinois	NELAP	100201	05-31-27
Indiana	State	C-IL-02	05-31-26
Iowa	State	082	05-01-28
Kansas	NELAP	E-10161	10-31-26
Kentucky (UST)	State	108083	05-31-27
Kentucky (WW)	State	KY90023	12-31-26
Louisiana (All)	NELAP	02046	06-30-26
Mississippi	State	NA	05-31-26
North Carolina (WW/SW)	State	291	12-31-26
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	12-31-26
South Carolina	State	77001	05-31-26
USDA	US Federal Programs	525-25-237-16455	08-25-28
Wisconsin	State	399172840	08-31-26
Wyoming	State	8TMS-Q	05-31-27

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Valent BioSciences LLC
Project/Site: Sludge Tank

Job ID: 310-331254-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
365.1	Phosphorus, Total	EPA	EET CF
9040C	pH	SW846	EET CF
Moisture	Percent Moisture	EPA	EET CF
SM 2540G	Total, Fixed, and Volatile Solids	SM	EET CF
3050B	Preparation, Metals	SW846	EET CHI
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
365.2/365.3/365	Phosphorus, Total	EPA	EET CF
7471B	Preparation, Mercury	SW846	EET CHI
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CF
Distill/Ammonia	Distillation, Ammonia	None	EET CF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

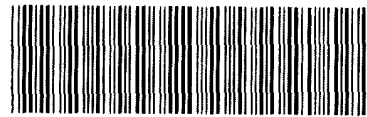
Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200



Environment Testing
America



310-331254 Chain of Custody

Cooler/Sample Receipt and Temperature Log

Client Information			
Client: <u>Veneta Bioscience</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received.	DATE	TIME	Received By:
	<u>5/5/24</u>	<u>1420</u>	<u>[Signature]</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>BB</u>		Correction Factor (°C) <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>2.6</u>		Corrected Temp (°C): <u>2.6</u>	
• Sample Container Temperature			
Container(s) used.	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Eurofins Cedar Falls

3019 Venture Way
 Cedar Falls, IA 50613
 Phone: 319-277-2401 Fax: 319-277-2425

Chain of Custody Record



eurofins

Client Information (Sub Contract Lab)		Sampler N/A	Lab PM: Calhoun, Conner M		Carrier Tracking No(s): N/A	COC No: 310-93954 1		
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Conner.Calhoun@et.eurofinsus.com		State of Origin: Iowa	Page: Page 1 of 1		
Company: Eurofins Environment Testing North Centr			Accreditations Required (See note): State Program Iowa			Job #: 310-331254-1		
Address: 18410 Crossing Drive, Suite E,		Due Date Requested: 5/13/2026	Analysis Requested				Preservation Codes	
City: Tinley Park		TAT Requested (days): N/A						
State, Zip: IL, 60487		PO #: N/A						
Phone: 708-534-5200(Tel) 708-534-5211(Fax)		WO #: N/A						
Email: N/A		Project #: 31007887						
Project Name: Sludge Tank		SSOW#: N/A	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers:	
Site: 310-Valent weekly samples		310-331254 COC		7471674716_Peptide/mercury		Other: N/A		
Sample Identification Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Special Instructions/Note:		
P2061 (310-331254-1)		5/5/26	09:00 Central	G	Solid	X	X	1
P2062 (310-331254-2)		5/5/26	09:00 Central	G	Solid	X	X	1
P2063 (310-331254-3)		5/5/26	09:00 Central	G	Solid	X	X	1
P2064 (310-331254-4)		5/5/26	09:00 Central	G	Solid	X	X	1

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I II III IV Other (specify)		Primary Deliverable Rank: 1	
Empty Kit Relinquished by:		Special Instructions/QC Requirements:	
Date:		Time:	
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>	
Date/Time: 5/8/26 12:30		Date/Time: 5/7/26 09:10	
Relinquished by:		Received by:	
Date/Time:		Date/Time:	
Relinquished by:		Received by:	
Date/Time:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.	
		Cooler Temperature(s) °C and Other Remarks: 32-73.1	



Login Sample Receipt Checklist

Client: Valent BioSciences LLC

Job Number: 310-331254-1

Login Number: 331254

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Hirsch, Preston

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Valent BioSciences LLC

Job Number: 310-331254-1

Login Number: 331254

List Number: 2

Creator: Scott, Sherri L

List Source: Eurofins Chicago

List Creation: 05/07/26 12:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	