

NEBRASKA

Good Life. Great Resources.

DEPT. OF ENVIRONMENT AND ENERGY

May 24, 2021

James and Deb Virgl
1549 County Road 7
Yutan, NE 68073

RE: Virgl Private Well
Facility ID: 84069
Program ID: NE0137634
Subject: Private Well Pesticide Sampling Results

Dear Mr. and Mrs. Virgl:

The Nebraska Department of Environment and Energy (NDEE) is conducting drinking water well sampling near Mead, Nebraska related to an environmental investigation at the AltEn, LLC facility. On May 5, 2021, NDEE sampled your private drinking water well. The NDEE appreciates your participation in this investigation.

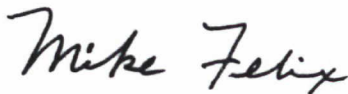
Enclosed are the laboratory results for private water well sample "Deb Virgl" collected from your well at 1549 County Road 7. The samples were tested for various types of pesticides associated with the seed treatment of field corn. The third column on pages 1 and 2 of the laboratory report identifies each chemical that was tested for. The fourth column provides the numeric results of the chemical in units of micrograms per liter, or ug/L, which is also equivalent to parts per billion (ppb). A result designated as "ND" indicates that the chemical was not detected.

The results indicate that there were no pesticides detected in the sample collected from your private well.

If you have any questions regarding any potential health effects associated with exposure to these chemicals, please contact Sue Dempsey at (402) 471-0510 or sue.dempsey@nebraska.gov. If you have any questions regarding the laboratory data enclosed, please contact me or Jim Borovich at (402) 471-2186 or mike.felix@nebraska.gov or jim.borovich@nebraska.gov.

Thank you again for your assistance.

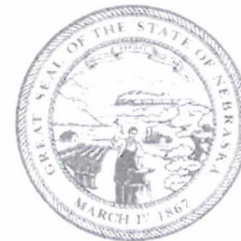
Sincerely,



Mike Felix
Section Supervisor
Superfund/VCP Section
Monitoring and Remediation Division

Enclosures

cc: Sue Dempsey, Nebraska Department of Health and Human Services w/enclosure



Pete Ricketts, Governor





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21830 S.W. Alexander Ln
Sherwood, OR 97140

Nebraska Department of Environment and Energy

P.O. Box 98922
Lincoln, NE 68509-8922

Report Number: P210528

Report Date: May 21, 2021

Client Project ID: 84069

Analytical Report

Client Sample ID: Deb Virgl

Matrix: water

PAL Sample ID: P210528-01

Sample Date: 5/5/21

Received Date: 5/7/21

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: LC-MS/MS					
5/07/21	5/10/21	AMPA	ND	40 ug/L	
5/07/21	5/10/21	Glufosinate	ND	10 ug/L	
5/07/21	5/10/21	Glyphosate	ND	10 ug/L	
Method: Modified EPA 8321B (LC-MS/MS)					
5/10/21	5/10/21	Abamectin	ND	1.0 ug/L	
5/10/21	5/10/21	Acetamiprid	ND	1.0 ug/L	
5/10/21	5/10/21	Azoxystrobin	ND	1.0 ug/L	
5/10/21	5/10/21	Brassinazole	ND	1.0 ug/L	
5/10/21	5/10/21	Carbendazim	ND	1.0 ug/L	
5/10/21	5/10/21	Carboxin	ND	1.0 ug/L	
5/10/21	5/10/21	Chlorantraniliprole	ND	1.0 ug/L	
5/10/21	5/10/21	Clothianidin	ND	1.0 ug/L	
5/10/21	5/10/21	Cyantraniliprole	ND	1.0 ug/L	
5/10/21	5/10/21	Cyproconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Difenoconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Dimoxystrobin	ND	1.0 ug/L	
5/10/21	5/10/21	Dinotefuran	ND	1.0 ug/L	
5/10/21	5/10/21	Epoxiconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Fluconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Fludioxonil	ND	1.0 ug/L	
5/10/21	5/10/21	Fluoxastrobin	ND	1.0 ug/L	
5/10/21	5/10/21	Imidacloprid	ND	1.0 ug/L	
5/10/21	5/10/21	Ipconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Isavuconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Itraconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Mefenoxam	ND	1.0 ug/L	
5/10/21	5/10/21	Metconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Nitenpyram	ND	1.0 ug/L	
5/10/21	5/10/21	Orysastrobin	ND	1.0 ug/L	
5/10/21	5/10/21	Picoxystrobin	ND	1.0 ug/L	

Rick Jordan, Laboratory Director

This analytical report complies with the ISO/IEC 17025:2017
Quality Standard.



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Report Number: P210528
Report Date: May 21, 2021
Client Project ID: 84069

Analytical Report

Client Sample ID: Deb Virgl
Matrix: water

PAL Sample ID: P210528-01
Sample Date: 5/5/21
Received Date: 5/7/21

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
5/10/21	5/10/21	Posaconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Propiconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Prothioconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Pyraclostrobin	ND	1.0 ug/L	
5/10/21	5/10/21	Ravuconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Tebuconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Tetraconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Thiabendazole	ND	1.0 ug/L	
5/10/21	5/10/21	Thiacloprid	ND	1.0 ug/L	
5/10/21	5/10/21	Thiamethoxam	ND	1.0 ug/L	
5/10/21	5/10/21	Thiophanate methyl	ND	1.0 ug/L	
5/10/21	5/10/21	Trifloxystrobin	ND	1.0 ug/L	
5/10/21	5/10/21	Uniconazole	ND	1.0 ug/L	
5/10/21	5/10/21	Voriconazole	ND	1.0 ug/L	

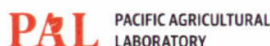
Surrogate Recovery: 98 %

Surrogate Recovery Range: 60-140

(TPP-d15 used as Surrogate)

Rick Jordan, Laboratory Director

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Report Number: P210528
Report Date: May 21, 2021
Client Project ID: 84069

Quality Assurance

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
5/7/21	5/10/21	21E0704-BLK1	AMPA	Not Detected	< 40 ug/L	
5/7/21	5/10/21	21E0704-BLK1	Glufosinate	Not Detected	< 10 ug/L	
5/7/21	5/10/21	21E0704-BLK1	Glyphosate	Not Detected	< 10 ug/L	

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
5/10/21	5/10/21	21E1003-BLK1	Abamectin	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Acetamiprid	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Azoxystrobin	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Brassinazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Carbendazim	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Carboxin	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Chlorantraniliprole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Clothianidin	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Cyantraniliprole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Cyproconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Difenoconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Dimoxystrobin	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Dinotefuran	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Epoxiconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Fluconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Fludioxonil	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Fluoxastrobin	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Imidacloprid	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Ipconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Isavuconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Itraconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Mefenoxam	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Metconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Nitenpyram	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Orysastrobin	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Picoxystrobin	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Posaconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Propiconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Prothioconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Pyraclostrobin	Not Detected	< 1.0 ug/L	

Rick Jordan, Laboratory Director

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Quality Standard.



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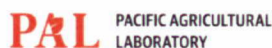
Report Number: P210528
Report Date: May 21, 2021
Client Project ID: 84069

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
5/10/21	5/10/21	21E1003-BLK1	Ravuconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Tebuconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Tetraconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Thiabendazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Thiacloprid	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Thiamethoxam	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Thiophanate methyl	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Trifloxystrobin	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Uniconazole	Not Detected	< 1.0 ug/L	
5/10/21	5/10/21	21E1003-BLK1	Voriconazole	Not Detected	< 1.0 ug/L	

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Report Number: P210528

Report Date: May 21, 2021

Client Project ID: 84069

Blank Spike Data

Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
5/7/21	5/10/21	21E0704-BS1	AMPA	113	60-140	
5/7/21	5/10/21	21E0704-BSD1	AMPA	118	60-140	
5/7/21	5/10/21	21E0704-BS1	Glufosinate	104	60-140	
5/7/21	5/10/21	21E0704-BSD1	Glufosinate	104	60-140	
5/7/21	5/10/21	21E0704-BS1	Glyphosate	107	60-140	
5/7/21	5/10/21	21E0704-BSD1	Glyphosate	110	60-140	

Blank Spike Data

Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
5/10/21	5/10/21	21E1003-BS1	Abamectin	99	60-140	
5/10/21	5/10/21	21E1003-BSD1	Abamectin	101	60-140	
5/10/21	5/10/21	21E1003-BS1	Acetamiprid	98	60-140	
5/10/21	5/10/21	21E1003-BSD1	Acetamiprid	102	60-140	
5/10/21	5/10/21	21E1003-BS1	Azoxystrobin	108	60-140	
5/10/21	5/10/21	21E1003-BSD1	Azoxystrobin	101	60-140	
5/10/21	5/10/21	21E1003-BS1	Brassinazole	108	60-140	
5/10/21	5/10/21	21E1003-BSD1	Brassinazole	96	60-140	
5/10/21	5/10/21	21E1003-BS1	Carbendazim	98	60-140	
5/10/21	5/10/21	21E1003-BSD1	Carbendazim	100	60-140	
5/10/21	5/10/21	21E1003-BS1	Carboxin	109	60-140	
5/10/21	5/10/21	21E1003-BSD1	Carboxin	109	60-140	
5/10/21	5/10/21	21E1003-BS1	Chlorantraniliprole	106	60-140	
5/10/21	5/10/21	21E1003-BSD1	Chlorantraniliprole	102	60-140	
5/10/21	5/10/21	21E1003-BS1	Clothianidin	105	60-140	
5/10/21	5/10/21	21E1003-BSD1	Clothianidin	105	60-140	
5/10/21	5/10/21	21E1003-BS1	Cyantraniliprole	136	60-140	
5/10/21	5/10/21	21E1003-BSD1	Cyantraniliprole	137	60-140	
5/10/21	5/10/21	21E1003-BS1	Cyproconazole	105	60-140	
5/10/21	5/10/21	21E1003-BSD1	Cyproconazole	100	60-140	
5/10/21	5/10/21	21E1003-BS1	Difenoconazole	107	60-140	
5/10/21	5/10/21	21E1003-BSD1	Difenoconazole	105	60-140	
5/10/21	5/10/21	21E1003-BS1	Dimoxystrobin	110	60-140	
5/10/21	5/10/21	21E1003-BSD1	Dimoxystrobin	103	60-140	
5/10/21	5/10/21	21E1003-BS1	Dinotefuran	97	60-140	
5/10/21	5/10/21	21E1003-BSD1	Dinotefuran	101	60-140	
5/10/21	5/10/21	21E1003-BS1	Epoxiconazole	106	60-140	
5/10/21	5/10/21	21E1003-BSD1	Epoxiconazole	105	60-140	
5/10/21	5/10/21	21E1003-BS1	Fluconazole	105	60-140	
5/10/21	5/10/21	21E1003-BSD1	Fluconazole	103	60-140	
5/10/21	5/10/21	21E1003-BS1	Fludioxonil	106	60-140	

Rick Jordan, Laboratory Director

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Quality Standard.



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Client Project ID: 84069

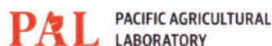
Blank Spike Data

Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
5/10/21	5/10/21	21E1003-BSD1	Fludioxonil	106	60-140	
5/10/21	5/10/21	21E1003-BS1	Fluoxastrobin	105	60-140	
5/10/21	5/10/21	21E1003-BSD1	Fluoxastrobin	102	60-140	
5/10/21	5/10/21	21E1003-BS1	Imidacloprid	106	60-140	
5/10/21	5/10/21	21E1003-BSD1	Imidacloprid	101	60-140	
5/10/21	5/10/21	21E1003-BS1	Ipconazole	112	60-140	
5/10/21	5/10/21	21E1003-BSD1	Ipconazole	100	60-140	
5/10/21	5/10/21	21E1003-BS1	Isavuconazole	104	60-140	
5/10/21	5/10/21	21E1003-BSD1	Isavuconazole	105	60-140	
5/10/21	5/10/21	21E1003-BS1	Itraconazole	109	60-140	
5/10/21	5/10/21	21E1003-BSD1	Itraconazole	101	60-140	
5/10/21	5/10/21	21E1003-BS1	Mefenoxam	103	60-140	
5/10/21	5/10/21	21E1003-BSD1	Mefenoxam	104	60-140	
5/10/21	5/10/21	21E1003-BS1	Metconazole	100	60-140	
5/10/21	5/10/21	21E1003-BSD1	Metconazole	99	60-140	
5/10/21	5/10/21	21E1003-BS1	Nitenpyram	97	60-140	
5/10/21	5/10/21	21E1003-BSD1	Nitenpyram	98	60-140	
5/10/21	5/10/21	21E1003-BS1	Orysastrobin	102	60-140	
5/10/21	5/10/21	21E1003-BSD1	Orysastrobin	100	60-140	
5/10/21	5/10/21	21E1003-BS1	Picoxystrobin	110	60-140	
5/10/21	5/10/21	21E1003-BSD1	Picoxystrobin	123	60-140	
5/10/21	5/10/21	21E1003-BS1	Posaconazole	115	60-140	
5/10/21	5/10/21	21E1003-BSD1	Posaconazole	89	60-140	
5/10/21	5/10/21	21E1003-BS1	Propiconazole	99	60-140	
5/10/21	5/10/21	21E1003-BSD1	Propiconazole	102	60-140	
5/10/21	5/10/21	21E1003-BS1	Prothioconazole	113	60-140	
5/10/21	5/10/21	21E1003-BSD1	Prothioconazole	120	60-140	
5/10/21	5/10/21	21E1003-BS1	Pyraclostrobin	104	60-140	
5/10/21	5/10/21	21E1003-BSD1	Pyraclostrobin	105	60-140	
5/10/21	5/10/21	21E1003-BS1	Ravuconazole	96	60-140	
5/10/21	5/10/21	21E1003-BSD1	Ravuconazole	97	60-140	
5/10/21	5/10/21	21E1003-BS1	Tebuconazole	104	60-140	
5/10/21	5/10/21	21E1003-BSD1	Tebuconazole	105	60-140	
5/10/21	5/10/21	21E1003-BS1	Tetraconazole	103	60-140	
5/10/21	5/10/21	21E1003-BSD1	Tetraconazole	106	60-140	
5/10/21	5/10/21	21E1003-BS1	Thiabendazole	98	60-140	
5/10/21	5/10/21	21E1003-BSD1	Thiabendazole	99	60-140	
5/10/21	5/10/21	21E1003-BS1	Thiacloprid	103	60-140	
5/10/21	5/10/21	21E1003-BSD1	Thiacloprid	105	60-140	
5/10/21	5/10/21	21E1003-BS1	Thiamethoxam	99	60-140	
5/10/21	5/10/21	21E1003-BSD1	Thiamethoxam	99	60-140	
5/10/21	5/10/21	21E1003-BS1	Thiophanate methyl	168	60-140	R3
5/10/21	5/10/21	21E1003-BSD1	Thiophanate methyl	168	60-140	R3

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Quality Standard.

Rick Jordan, Laboratory Director



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Client Project ID: 84069

Blank Spike Data

Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
5/10/21	5/10/21	21E1003-BS1	Trifloxystrobin	107	60-140	
5/10/21	5/10/21	21E1003-BSD1	Trifloxystrobin	103	60-140	
5/10/21	5/10/21	21E1003-BS1	Uniconazole	102	60-140	
5/10/21	5/10/21	21E1003-BSD1	Uniconazole	101	60-140	
5/10/21	5/10/21	21E1003-BS1	Voriconazole	101	60-140	
5/10/21	5/10/21	21E1003-BSD1	Voriconazole	103	60-140	

Project Notes

Notes	Definition
R3	Spike recovery above control limit. Sample results are not detected, data quality has not been affected.

Rick Jordan, Laboratory Director

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Quality Standard.

