



Hygienic Laboratory

CON 12-15
Doc #17015

The University of Iowa

Date of report: 01-02-1998

|||||.....|.....|.....|.....|

LAVOY HAAGE
DNR SOLID WASTE SECTION
WALLACE STATE OFFICE BLDG
900 EAST GRAND AVENUE
DES MOINES IA 50319

Sample Number 9708929
Date Received 11-26-1997
Project WMSF
Date Collected 11-25-1997 11:50
Collection Site trugreen
Collection Town Davenport
Description soil
Reference S-1
Collector NNADI LAMBERT
Phone (515) 281-4117
PWS Id & Type
Purchase Order

Results of Analyses

Nitrogen Containing Herbicides in Soil

Analyte	Concentration mg/kg	Quantitation Limit
Atrazine	<0.1	0.1
Cyanazine (Bladex)	<0.1	0.1
Metolachlor (Dual)	<0.3	0.3
Alachlor (Lasso)	<0.1	0.1
Metribuzin (Sencor)	<0.1	0.1
Butylate (Sutan)	<0.1	0.1
Trifluralin (Treflan)	<0.1	0.1
Acetochlor	<0.2	0.2
Desethyl Atrazine	<0.1	0.1
Desisopropyl Atrazine	<0.1	0.1
Pendimethalin (Prowl)	3.0	0.1

Date Analyzed: 12-06-1997

Method: EPA 8141

Date Extracted: 12-05-1997

Extraction Method: EPA 3550

Analyst: PM

Verified: DLZ

Analyst: DS

Verified: MK

Organophosphate Insecticides in Solids

Analyte	Concentration mg/kg	Quantitation Limit
Terbufos (Counter)	<0.1	0.1
Fonofos (Dyfonate)	<0.1	0.1
Chlorpyrifos (Lorsban)	<0.1	0.1
Ethoprop (Mocap)	<0.1	0.1
Phorate (Thimet)	<0.1	0.1
Carbofuran (Furadan)	<0.2	0.2

Date Analyzed: 12-06-1997

Method: EPA 8141

Date Extracted: 12-05-1997

Extraction Method: EPA 3550

Analyst: PM

Verified: DLZ

Analyst: DS

Verified: MK



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Sample Number 9708929

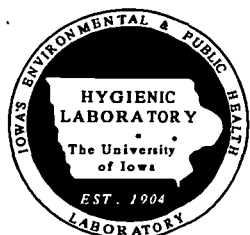
Description of units used within this report

mg/kg - Milligrams per Kilogram

Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, ICR, NVLAP, USEPA and other credentials available upon request.

If you have any questions please call Sherri Marine at 800/421-IOWA (4692) or 319/335-4500. Thank you.



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LAVOY HAAGE
DNR SOLID WASTE SECTION
WALLACE STATE OFFICE BLDG
900 EAST GRAND AVENUE
DES MOINES IA 50319

Sample Number 9708930
Date Received 11-26-1997
Project WMSF
Date Collected 11-25-1997 12:00
Collection Site trugreen
Collection Town Davenport
Description soil
Reference S-2
Collector NNADI LAMBERT
Phone (515) 281-4117
PWS Id & Type
Purchase Order

Results of Analyses

Nitrogen Containing Herbicides in Soil

Analyte	Concentration mg/kg	Quantitation Limit
Atrazine	<0.1	0.1
Cyanazine (Bladex)	<0.1	0.1
Metolachlor (Dual)	<0.1	0.1
Alachlor (Lasso)	<0.1	0.1
Metribuzin (Sencor)	<0.1	0.1
Butylate (Sutan)	<0.1	0.1
Trifluralin (Treflan)	<0.1	0.1
Acetochlor	<0.2	0.2
Desethyl Atrazine	<0.1	0.1
Desisopropyl Atrazine	<0.1	0.1
Bendimethalin (Prowl)	1.3	0.1

Date Analyzed: 12-06-1997

Method: EPA 8141

Date Extracted: 12-05-1997

Extraction Method: EPA 3550

Analyst: PM

Verified: DLZ

Analyst: DS

Verified: MK

Organophosphate Insecticides in Solids

Analyte	Concentration mg/kg	Quantitation Limit
Terbufos (Counter)	<0.1	0.1
Fonofos (Dyfonate)	<0.1	0.1
Chlorpyrifos (Lorsban)	<0.1	0.1
Ethoprop (Mocap)	<0.1	0.1
Phorate (Thimet)	<0.1	0.1
Carbofuran (Furadan)	<0.2	0.2

Date Analyzed: 12-06-1997

Method: EPA 8141

Date Extracted: 12-05-1997

Extraction Method: EPA 3550

Analyst: PM

Verified: DLZ

Analyst: DS

Verified: MK



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Sample Number 9708930

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LAVOY HAAGE
DNR SOLID WASTE SECTION
WALLACE STATE OFFICE BLDG
900 EAST GRAND AVENUE
DES MOINES IA 50319

Sample Number 9708931
Date Received 11-26-1997
Project WMSF
Date Collected 11-25-1997 12:06
Collection Site trugreen
Collection Town Davenport
Description soil
Reference S-3
Collector NNADI LAMBERT
Phone (515) 281-4117
PWS Id & Type
Purchase Order

Results of Analyses

Nitrogen Containing Herbicides in Soil

Analyte	Concentration mg/kg	Quantitation Limit
Atrazine	<0.1	0.1
Cyanazine (Bladex)	<0.1	0.1
Metolachlor (Dual)	<0.1	0.1
Alachlor (Lasso)	<0.1	0.1
Metribuzin (Sencor)	<0.1	0.1
Butylate (Sutan)	<0.1	0.1
Trifluralin (Treflan)	0.40	0.1
Acetochlor	<0.2	0.2
Desethyl Atrazine	<0.1	0.1
Desisopropyl Atrazine	<0.1	0.1
Pendimethalin (Prowl)	20	0.1

Date Analyzed: 12-06-1997

Method: EPA 8141

Date Extracted: 12-05-1997

Extraction Method: EPA 3550

Analyst: PM

Verified: DLZ

Analyst: DS

Verified: MK

Organophosphate Insecticides in Solids

Analyte	Concentration mg/kg	Quantitation Limit
Terbufos (Counter)	<0.1	0.1
Fonofos (Dyfonate)	<0.1	0.1
Chlorpyrifos (Lorsban)	<0.1	0.1
Ethoprop (Mocap)	<0.1	0.1
Phorate (Thimet)	<0.1	0.1
Carbofuran (Furadan)	<0.1	0.1

Date Analyzed: 12-06-1997

Method: EPA 8141

Date Extracted: 12-05-1997

Extraction Method: EPA 3550

Analyst: PM

Verified: DLZ

Analyst: DS

Verified: MK



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Sample Number 9708931

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LAVOY HAAGE
DNR SOLID WASTE SECTION
WALLACE STATE OFFICE BLDG
900 EAST GRAND AVENUE
DES MOINES IA 50319

Sample Number 9708932
Date Received 11-26-1997
Project WMSF
Date Collected 11-25-1997 12:15
Collection Site trugreen
Collection Town Davenport
Description soil
Reference S-4
Collector NNADI LAMBERT
Phone (515) 281-4117
PWS Id & Type
Purchase Order

Results of Analyses

Nitrogen Containing Herbicides in Soil

Analyte	Concentration mg/kg	Quantitation Limit
Atrazine	<0.1	0.1
Cyanazine (Bladex)	<3	3
Metolachlor (Dual)	<0.1	0.1
Alachlor (Lasso)	<0.1	0.1
Metribuzin (Sencor)	<0.1	0.1
Butylate (Sutan)	<0.1	0.1
Trifluralin (Treflan)	0.52	0.1
Acetochlor	<0.2	0.2
Desethyl Atrazine	<0.1	0.1
Desisopropyl Atrazine	<0.1	0.1
Pendimethalin (Prowl)	85	0.1
Isofenphos	1.9	0.1

Date Analyzed: 12-06-1997

Method: EPA 8141

Date Extracted: 12-05-1997

Extraction Method: EPA 3550

Analyst: PM

Verified: DLZ

Analyst: DS

Verified: MK

Organophosphate Insecticides in Solids

Analyte	Concentration mg/kg	Quantitation Limit
Terbufos (Counter)	<0.1	0.1
Fonofos (Dyfonate)	<0.1	0.1
Chlorpyrifos (Lorsban)	<0.1	0.1
Ethoprop (Mocap)	<0.1	0.1
Phorate (Thimet)	<0.1	0.1
Carbofuran (Furadan)	<0.2	0.2

Date Analyzed: 12-06-1997

Method: EPA 8141

Date Extracted: 12-05-1997

Extraction Method: EPA 3550

Analyst: PM

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WALLACE STATE OFFICE BLDG
900 EAST GRAND AVENUE
DES MOINES IA 50319

Sample Number 9708933
Date Received 11-26-1997
Project WMSF
Date Collected 11-25-1997 12:50
Collection Site trugreen
Collection Town Davenport
Description soil
Reference S-5
Collector NNADI LAMBERT
Phone (515) 281-4117
PWS Id & Type
Purchase Order

Results of Analyses

Nitrogen Containing Herbicides in Soil

Analyte	Concentration mg/kg	Quantitation Limit
Atrazine	<0.1	0.1
Cyanazine (Bladex)	<0.1	0.1
Metolachlor (Dual)	<0.1	0.1
Alachlor (Lasso)	<0.1	0.1
Metribuzin (Sencor)	<0.1	0.1
Butylate (Sutan)	<0.1	0.1
Trifluralin (Treflan)	<0.1	0.1
Acetochlor	<0.2	0.2
Desethyl Atrazine	<0.1	0.1
Desisopropyl Atrazine	<0.1	0.1
Pendimethalin (Prowl)	7.7	0.1

Date Analyzed: 12-06-1997
Method: EPA 8141
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Extraction Method: EPA 3550

Analyst: PM
Verified: DLZ
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Verified: MK

Organophosphate Insecticides in Solids

Analyte	Concentration mg/kg	Quantitation Limit
Terbufos (Counter)	<0.1	0.1
Fonofos (Dyfonate)	<0.1	0.1
Chlorpyrifos (Lorsban)	<0.1	0.1
Ethoprop (Mocap)	<0.1	0.1
Phorate (Thimet)	<0.1	0.1
Carbofuran (Furadan)	<0.1	0.1

Date Analyzed: 12-06-1997
Method: EPA 8141
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Analyst: PM
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DNR SOLID WASTE SECTION
WALLACE STATE OFFICE BLDG
900 EAST GRAND AVENUE
DES MOINES IA 50319

Sample Number 9708934
Date Received 11-26-1997
Project WMSF
Date Collected 11-25-1997 13:05
Collection Site trugreen
Collection Town Davenport
Description soil
Reference S-6
Collector NNADI LAMBERT
Phone (515) 281-4117
PWS Id & Type
Purchase Order

Results of Analyses

Nitrogen Containing Herbicides in Soil

Analyte	Concentration mg/kg	Quantitation Limit
Atrazine	<0.1	0.1
Cyanazine (Bladex)	<0.2	0.2
Metolachlor (Dual)	<0.1	0.1
Alachlor (Lasso)	<0.1	0.1
Metribuzin (Sencor)	<0.2	0.2
Butylate (Sutan)	<0.1	0.1
Trifluralin (Treflan)	<0.1	0.1
Acetochlor	<0.2	0.2
Desethyl Atrazine	<0.1	0.1
Desisopropyl Atrazine	<0.1	0.1
Pendimethalin (Prowl)	<0.1	0.1

Date Analyzed: 12-06-1997
Method: EPA 8141
Date Extracted: 12-05-1997
Extraction Method: EPA 3550

Analyst: PM
Verified: DLZ
Analyst: DS
Verified: MK

Organophosphate Insecticides in Solids

Analyte	Concentration mg/kg	Quantitation Limit
Terbufos (Counter)	<0.1	0.1
Fonofos (Dyfonate)	<0.1	0.1
Chlorpyrifos (Lorsban)	<0.1	0.1
Ethoprop (Mocap)	<0.1	0.1
Phorate (Thimet)	<0.1	0.1
Carbofuran (Furadan)	<0.2	0.2

Date Analyzed: 12-06-1997
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Analyst: PM
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