

New York City MSW Composting Report

Appendix H Data from the Four-Facility Survey

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Facility names have been coded for anonymity. Fecal coliform and Salmonella test results can be found on the respective, final Facility "Metals Analysis" lab data sheets, with the exception of Facility NRC, where these results appear on the Facility primary screen unders "Metals Analysis" lab data sheets. There is no inerts analysis for facility NRC since this facility did not produce a finished compost product at the time of the survey.

"The Inerts Characterization data, summarized in Table 3-7 of the body of the report can be found in the "Inerts" section for each of the facilities. Specifically, the data is derived from the respective facility final screen unders, the "Under 10mm" fraction found in the lower right-hand column, titled "percent of under-10mm dry basis." The relevant data is highlighted.

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Account: 556

· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

· 44 Beaver Street-8th floor

· New York NY 10004

Code: Ccvd Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.0

Quality Checked : *WD 7/25/01*

COMPOSITION ANALYSIS

Sample Identification: NAL Primary Screen Unders (<3"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs·ft ³	-	38	1028 lbs/yd ³
Solids	%	100.0	44.8	896 lbs/ton
Moisture	%	0.0	55.2	132 gals/ton
est. water holding capacity	%	214	68	163 gals/ton
Inert and Oversize Matter	%	~	12.9	258.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	5.23	ExLow
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	25235	11305	V High
Organic Matter	%	68.8	30.8	616 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	7.5	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	23.2	23.2	Med-High
Respiration Rate/day ...	C% of Total-C	2.19	2.19	-
Carbon loss per day ...	% of total weight	0.81	0.36	7.3 lbs/ton
Dewar Self-Heating	°C rise	~	38	Grade II
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	2	Very Immature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Lab ID Number : 4996.0

MINERALS ANALYSIS

Sample Identification: NAL Primary Screen Unders (<3"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
..... Total Mineral Nutrients				
Total Nitrogen	%	1.603	0.718	14.4
Organic-Nitrogen	%	1.333	0.597	11.9
Phosphorus (P)	%	0.280	0.125	2.5
Potassium (K)	%	0.736	0.330	6.6
Sodium (Na)	%	0.288	0.129	2.6
Calcium (Ca)	%	1.900	0.851	17.0
Magnesium (Mg)	%	0.224	0.100	2.0
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	2702	1210	2.4
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	4943	2215	4.43
Sulfate (SO ₄ -S)	ppm	2024	907	1.81

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· New York NY 10004

Lab ID Number : 4996.0

METALS ANALYSIS

Sample Identification: NAL Primary Screen Unders (<3"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	43.6	19.5	<0.1
Manganese (Mn)	mg·kg ⁻¹	164.0	73.5	0.1
Iron (Fe)	mg·kg ⁻¹	8040.0	3601.9	7.2
Zinc (Zn)	mg·kg ⁻¹	408.0	182.8	0.4
Lead (Pb)	mg·kg ⁻¹	84.0	-	-
Chromium (Cr)	mg·kg ⁻¹	52.0	-	-
Cadmium (Cd)	mg·kg ⁻¹	2.8	-	-
Nickel (Ni)	mg·kg ⁻¹	34.8	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Code: Ccvd Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.1

Quality Checked : WD 7/25/01

COMPOSITION ANALYSIS

Sample Identification: NAL Primary Screen Unders (<3"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	37	1011 lbs/yd ³
Solids	%	100.0	43.7	874 lbs/ton
Moisture	%	0.0	56.3	135 gals/ton
est. water holding capacity	%	225	69	166 gals/ton
Inert and Oversize Matter	%	~	8.2	164.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	5.06	ExLow
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	2749	1201	Medium
Organic Matter	%	72.7	31.8	636 lbs/ton
Conductivity	mhos-cm ⁻¹	~	7.2	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	23.5	23.5	Med-High
Respiration Rate/day ...	C% of Total-C	2.13	2.13	-
Carbon loss per day ...	% of total weight	0.83	0.36	7.3 lbs/ton
Dewar Self-Heating	°C rise	~	40	Grade II
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	3	Immature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.1

MINERALS ANALYSIS

Sample Identification: NAL Primary Screen Unders (<3"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
..... Total Mineral Nutrients				
Total Nitrogen	%	1.671	0.730	14.6
Organic-Nitrogen	%	1.388	0.607	12.1
Phosphorus (P)	%	0.280	0.122	2.4
Potassium (K)	%	0.756	0.330	6.6
Sodium (Na)	%	0.308	0.135	2.7
Calcium (Ca)	%	1.808	0.790	15.8
Magnesium (Mg)	%	0.224	0.098	2.0
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	2795	1221	2.4
Nitrate-N	ppm	30	13	0.0
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	5328	2328	4.66
Sulfate (SO ₄ -S)	ppm	1946	850	1.70

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· New York NY 10004

Lab ID Number : 4996.1

METALS ANALYSIS

Sample Identification: NAL Primary Screen Unders (<3"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	49.2	21.5	<0.1
Manganese (Mn)	mg·kg ⁻¹	156.0	68.2	0.1
Iron (Fe)	mg·kg ⁻¹	6480.0	2831.8	5.7
Zinc (Zn)	mg·kg ⁻¹	304.0	132.8	0.3
Lead (Pb)	mg·kg ⁻¹	50.0	-	-
Chromium (Cr)	mg·kg ⁻¹	50.0	-	-
Cadmium (Cd)	mg·kg ⁻¹	2.8	-	-
Nickel (Ni)	mg·kg ⁻¹	40.8	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Code: svd Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.2

Quality Checked : WD 7/25/01

COMPOSITION ANALYSIS

Sample Identification: NAL Day 7, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	34	927 lbs/yd ³
Solids	%	100.0	42.7	854 lbs/ton
Moisture	%	0.0	57.3	137 gals/ton
est. water holding capacity	%	200	67	160 gals/ton
Inert and Oversize Matter	%	~	9.8	196.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.30	Med-Ideal
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	19430	8297	High
Organic Matter	%	63.7	27.2	544 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	8.6	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	21.5	21.5	Medium
Dewar Self-Heating	°C rise	~	40	Grade II
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.599	0.683	13.7

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: svd Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.3

Quality Checked : WD 7/25/01

COMPOSITION ANALYSIS

Sample Identification: NAL Day 7, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs·ft ³	-	45	1213 lbs/yd ³
Solids	%	100.0	38.5	770 lbs/ton
Moisture	%	0.0	61.5	147 gals/ton
est. water holding capacity	%	214	68	163 gals/ton
Inert and Oversize Matter	%	~	14.3	286.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	6.37	V Low
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	27922	10750	V High
Organic Matter	%	68.8	26.5	530 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	5.8	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	24.6	24.6	Med-High
Dewar Self-Heating	°C rise	~	34	Grade II
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	2	Very Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.512	0.582	11.6

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Appendix H: Data from the Four-Facility Survey

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Code: svd Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.4

Quality Checked : *WD 7/25/01*

COMPOSITION ANALYSIS

Sample Identification: NAL Day 14, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	37	994 lbs/yd ³
Solids	%	100.0	48.8	976 lbs/ton
Moisture	%	0.0	51.2	123 gals/ton
est. water holding capacity	%	193	66	158 gals/ton
Inert and Oversize Matter	%	~	12.3	246.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.58	Very High
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	11177	5454	High
Organic Matter	%	61.2	29.9	598 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	5.0	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	18.8	18.8	Medium
Dewar Self-Heating	°C rise	~	13	Grade IV
Solvita CO ₂ Rate	(see chart)	~	4	Med-High
Solvita NH ₃ Rate	(see chart)	~	3	Medium
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.763	0.860	17.2

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· New York NY 10004

Code: svd Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.5

Quality Checked : WD 7/25/01

COMPOSITION ANALYSIS

Sample Identification: NAL Day 14, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	42	1129 lbs/yd ³
Solids	%	100.0	40.8	816 lbs/ton
Moisture	%	0.0	59.2	142 gals/ton
est. water holding capacity	%	203	67	161 gals/ton
Inert and Oversize Matter	%	~	14.4	288.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	6.81	Med Low
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	29181	11906	V High
Organic Matter	%	64.7	26.4	528 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	5.3	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	26.2	26.2	Med-High
Dewar Self-Heating	°C rise	~	34	Grade II
Solvita CO ₂ Rate	(see chart)	~	4	Med-High
Solvita NH ₃ Rate	(see chart)	~	3	Medium
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.335	0.545	10.9

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: svd Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.6

Quality Checked : WD 7/25/01

COMPOSITION ANALYSIS

Sample Identification: NAL Day 21, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	34	927 lbs/yd ³
Solids	%	100.0	65.0	1300 lbs/ton
Moisture	%	0.0	35.0	84 gals/ton
est. water holding capacity	%	180	64	154 gals/ton
Inert and Oversize Matter	%	~	24.6	492.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.94	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	1847	1201	Medium
Organic Matter	%	56.4	36.6	733 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	5.6	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	15.7	15.7	M. Low
Dewar Self-Heating	°C rise	~	16	Grade IV
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.940	1.261	25.2

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: svd Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.7

Quality Checked : *WD 7/25/01*

COMPOSITION ANALYSIS

Sample Identification: NAL Day 21, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	38	1028 lbs/yd ³
Solids	%	100.0	56.4	1128 lbs/ton
Moisture	%	0.0	43.6	105 gals/ton
est. water holding capacity	%	178	64	153 gals/ton
Inert and Oversize Matter	%	~	19.4	388.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.29	High
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	1152	650	M Low
Organic Matter	%	55.5	31.3	626 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	3.8	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	15.9	15.9	M. Low
Dewar Self-Heating	°C rise	~	27	Grade III
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.885	1.063	21.3

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: CScyvdX Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.8

Quality Checked : WD 7/25/01

COMPOSITION ANALYSIS

Sample Identification: NAL Final Screen Unders (<8mm), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	39	1045 lbs/yd ³
Solids	%	100.0	65.8	1316 lbs/ton
Moisture	%	0.0	34.2	82 gals/ton
est. water holding capacity	%	171	63	151 gals/ton
Inert and Oversize Matter	%	~	6.8	136.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.95	MedHigh
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	912	600	M Low
Organic Matter	%	53.2	35.0	700 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	5.6	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	14.2	14.2	M. Low
Respiration Rate/day ...	C% of Total-C	1.77	1.77	-
Carbon loss per day ...	% of total weight	0.51	0.33	6.7 lbs/ton
Dewar Self-Heating	°C rise	~	20	Grade IV
..... Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	19	Ex. Phytotoxic
<i>Lepidium sativum</i> Weight	%	~	30	V. Poor
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	3	Immature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Code: CScyvdX-Project: 610

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 · New York NY 10004

Date Received : 06/27/2001
 Date Reported : 07/25/2001
 Lab ID Number : 4996.8

MINERALS ANALYSIS

Sample Identification: NAL Final Screen Unders (<8mm), Sample A A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
..... Total Mineral Nutrients				
Total Nitrogen	%	2.024	1.332	26.6
Organic-Nitrogen	%	1.888	1.242	24.8
Phosphorus (P)	%	0.536	0.353	7.1
Potassium (K)	%	0.440	0.290	5.8
Sodium (Na)	%	0.344	0.226	4.5
Calcium (Ca)	%	2.944	1.937	38.7
Magnesium (Mg)	%	0.380	0.250	5.0
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	1361	896	1.8
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	4246	2794	5.59
Sulfate (SO ₄ -S)	ppm	1412	929	1.86

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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207-293-2457 FAX: 207-293-2488 www.woodsend.org

Account: 556

Code: CScyvdX-Project: 610

· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

· 44 Beaver Street-8th floor

· New York NY 10004

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.8

METALS ANALYSIS

Sample Identification: NAL Final Screen Unders (<8mm), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	168.0	110.5	0.2
Manganese (Mn)	mg·kg ⁻¹	336.0	221.1	0.4
Iron (Fe)	mg·kg ⁻¹	14400.0	9475.2	19.0
Zinc (Zn)	mg·kg ⁻¹	516.0	339.5	0.7
Lead (Pb)	mg·kg ⁻¹	124.0	81.6	0.2
Chromium (Cr)	mg·kg ⁻¹	168.0	110.5	0.2
Cadmium (Cd)	mg·kg ⁻¹	6.0	-	-
Nickel (Ni)	mg·kg ⁻¹	65.6	43.2	0.1
Arsenic (As)	mg·kg ⁻¹	6.00	-	-
Mercury (Hg)	mg·kg ⁻¹	1.29	-	-
Molybdenum (Mo)	mg·kg ⁻¹	5.12	-	-
Selenium (Se)	mg·kg ⁻¹	3.08	-	-

BACTERIOLOGIC ANALYSIS

Fecal coliform EPA503	MPN per g	1200	-
Total <i>Salmonella</i> EPA503 ..	MPN per 4g	< 1.2	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Code: CScyvdX Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.9

Quality Checked : *wd 7/25/01*

COMPOSITION ANALYSIS

Sample Identification: NAL Final Screen Unders (<8mm), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	39	1062 lbs/yd ³
Solids	%	100.0	65.1	1302 lbs/ton
Moisture	%	0.0	34.9	84 gals/ton
est. water holding capacity	%	175	64	153 gals/ton
Inert and Oversize Matter	%	~	4.9	98.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.14	MedHigh
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	1459	950	M Low
Organic Matter	%	54.5	35.5	709 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	6.3	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	14.5	14.5	M. Low
Respiration Rate/day ...	C% of Total-C	1.98	1.98	-
Carbon loss per day ...	% of total weight	0.58	0.38	7.6 lbs/ton
Dewar Self-Heating	°C rise	~	38	Grade II
..... Seedling Response Assay, Percent of Control.....				
<i>Lepidium sativum</i> Germination	%	~	45	Very Phytotoxic
<i>Lepidium sativum</i> Weight	%	~	31	Low
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	3	Immature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· DOS Waste Prev. Reuse and Recycling

Date Received : 06/27/2001

· 44 Beaver Street-8th floor

Date Reported : 07/25/2001

· New York NY 10004

Lab ID Number : 4996.9

MINERALS ANALYSIS

Sample Identification: NAL Final Screen Unders (<8mm), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
..... Total Mineral Nutrients				
Total Nitrogen	%	2.031	1.322	26.4
Organic-Nitrogen	%	1.889	1.230	24.6
Phosphorus (P)	%	0.556	0.362	7.2
Potassium (K)	%	0.444	0.289	5.8
Sodium (Na)	%	0.356	0.232	4.6
Calcium (Ca)	%	3.040	1.979	39.6
Magnesium (Mg)	%	0.384	0.250	5.0
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	1420	924	1.8
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Volatile N as % of total-N	w:w	~	0.6	-
Chloride (Cl)	ppm	4361	2839	5.68
Sulfate (SO ₄ -S)	ppm	1341	873	1.75

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· New York NY 10004

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4996.9

METALS ANALYSIS

Sample Identification: NAL Final Screen Unders (<8mm), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	180.0	117.2	0.2
Manganese (Mn)	mg·kg ⁻¹	320.0	208.3	0.4
Iron (Fe)	mg·kg ⁻¹	14920.0	9712.9	19.4
Zinc (Zn)	mg·kg ⁻¹	528.0	343.7	0.7
Lead (Pb)	mg·kg ⁻¹	118.0	76.8	0.2
Chromium (Cr)	mg·kg ⁻¹	168.0	109.4	0.2
Cadmium (Cd)	mg·kg ⁻¹	6.0	-	-
Nickel (Ni)	mg·kg ⁻¹	53.2	34.6	0.1
Arsenic (As)	mg·kg ⁻¹	6.81	-	-
Mercury (Hg)	mg·kg ⁻¹	1.25	-	-
Molybdenum (Mo)	mg·kg ⁻¹	5.23	-	-
Selenium (Se)	mg·kg ⁻¹	2.44	-	-
BACTERIOLOGIC ANALYSIS				
Fecal coliform EPA503	MPN per g	2500	-	-
Total <i>Salmonella</i> EPA503 ..	MPN per 4g	< 1.2	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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· New York NY 10004

Code: CScyvdX Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4997.2

Quality Checked : WD 7/25/01

COMPOSITION ANALYSIS

Sample Identification: NAL Day 90, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs·ft ³	-	34	910 lbs/yd ³
Solids	%	100.0	70.3	1406 lbs/ton
Moisture	%	0.0	29.7	71 gals/ton
est. water holding capacity	%	181	64	154 gals/ton
Inert and Oversize Matter	%	~	1.7	34.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.38	High
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	711	500	M Low
Organic Matter	%	56.8	39.9	798 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	9.4	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	12.6	12.6	M. Low
Respiration Rate/day ...	C% of Total-C	0.80	0.80	-
Carbon loss per day ...	% of total weight	0.24	0.17	3.4 lbs/ton
Dewar Self-Heating	°C rise	~	10	Grade V
..... Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	67	Phytotoxic
<i>Lepidium sativum</i> Weight	%	~	62	Fair
Solvita CO ₂ Rate	(see chart)	~	4	Med-High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	4	Med-Active

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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· 44 Beaver Street-8th floor

· New York NY 10004

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4997.2

MINERALS ANALYSIS

Sample Identification: NAL Day 90, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
..... Total Mineral Nutrients				
Total Nitrogen	%	2.436	1.713	34.3
Organic-Nitrogen	%	2.353	1.654	33.1
Phosphorus (P)	%	0.216	0.152	3.0
Potassium (K)	%	0.388	0.273	5.5
Sodium (Na)	%	0.588	0.413	8.3
Calcium (Ca)	%	3.760	2.643	52.9
Magnesium (Mg)	%	0.344	0.242	4.8
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	832	585	1.2
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	4545	3195	6.39
Sulfate (SO ₄ -S)	ppm	2254	1584	3.17

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· New York NY 10004

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4997.2

METALS ANALYSIS

Sample Identification: NAL Day 90, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	244.0	171.5	0.3
Manganese (Mn)	mg·kg ⁻¹	452.0	317.8	0.6
Iron (Fe)	mg·kg ⁻¹	6880.0	4836.6	9.7
Zinc (Zn)	mg·kg ⁻¹	652.0	458.4	0.9
Lead (Pb)	mg·kg ⁻¹	129.6	91.1	0.2
Chromium (Cr)	mg·kg ⁻¹	103.6	72.8	0.1
Cadmium (Cd)	mg·kg ⁻¹	6.4	-	-
Nickel (Ni)	mg·kg ⁻¹	57.6	40.5	0.1
Arsenic (As)	mg·kg ⁻¹	4.77	-	-
Mercury (Hg)	mg·kg ⁻¹	1.90	-	-
Molybdenum (Mo)	mg·kg ⁻¹	7.17	-	-
Selenium (Se)	mg·kg ⁻¹	2.54	-	-
BACTERIOLOGIC ANALYSIS				
Fecal coliform EPA503	MPN per g	< 2.9	-	
Total <i>Salmonella</i> EPA503 ..	MPN per 4g	< 1.2	-	

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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 New York NY 10004

Code: CScydx Project: 610

Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4997.3

Quality Checked : WD 7/25/01

COMPOSITION ANALYSIS

Sample Identification: NAL Day 90, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	32	859 lbs/yd ³
Solids	%	100.0	76.6	1532 lbs/ton
Moisture	%	0.0	23.4	56 gals/ton
est. water holding capacity	%	183	65	155 gals/ton
Inert and Oversize Matter	%	~	0.6	12.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.54	Very High
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	587	450	M Low
Organic Matter	%	57.5	44.1	881 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	9.7	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	14.2	14.2	M. Low
Respiration Rate/day ...	C% of Total-C	1.24	1.24	-
Carbon loss per day ...	% of total weight	0.38	0.29	5.9 lbs/ton
Dewar Self-Heating	°C rise	~	39	Grade II
..... Seedling Response Assay, Percent of Control.....				
<i>Lepidium sativum</i> Germination	%	~	40	Very Phytotoxic
<i>Lepidium sativum</i> Weight	%	~	41	Low
Solvita CO ₂ Rate	(see chart)	~	6	Med-Low
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	6	Active-Curing

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· New York NY 10004

Date Received : 06/27/2001
Date Reported : 07/25/2001
Lab ID Number : 4997.3

MINERALS ANALYSIS

Sample Identification: NAL Day 90, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
Total Mineral Nutrients				
Total Nitrogen	%	2.189	1.677	33.5
Organic-Nitrogen	%	1.991	1.525	30.5
Phosphorus (P)	%	0.236	0.181	3.6
Potassium (K)	%	0.436	0.334	6.7
Sodium (Na)	%	0.672	0.515	10.3
Calcium (Ca)	%	3.960	3.033	60.7
Magnesium (Mg)	%	0.364	0.279	5.6
Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	1983	1519	3.0
Nitrate-N	ppm	<2	< 2	nd
Nitrite-N	ppm	<2	< 2	nd
Volatile N as % of total-N	w:w	~	1.6	-
Chloride (Cl)	ppm	6249	4787	9.57
Sulfate (SO ₄ -S)	ppm	2696	2065	4.13

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Date Received : 06/27/2001

Date Reported : 07/25/2001

Lab ID Number : 4997.3

METALS ANALYSIS

Sample Identification: NAL Day 90, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	240.0	183.8	0.4
Manganese (Mn)	mg·kg ⁻¹	400.0	306.4	0.6
Iron (Fe)	mg·kg ⁻¹	7440.0	5699.0	11.4
Zinc (Zn)	mg·kg ⁻¹	668.0	511.7	1.0
Lead (Pb)	mg·kg ⁻¹	140.0	107.2	0.2
Chromium (Cr)	mg·kg ⁻¹	98.0	75.1	0.2
Cadmium (Cd)	mg·kg ⁻¹	5.6	-	-
Nickel (Ni)	mg·kg ⁻¹	55.6	42.6	0.1
Arsenic (As)	mg·kg ⁻¹	4.62	-	-
Mercury (Hg)	mg·kg ⁻¹	1.81	-	-
Molybdenum (Mo)	mg·kg ⁻¹	7.52	-	-
Selenium (Se)	mg·kg ⁻¹	2.28	-	-
BACTERIOLOGIC ANALYSIS.....				
Fecal coliform EPA503	MPN per g	< 2.6	-	
Total <i>Salmonella</i> EPA503 ..	MPN per 4g	< 1.0	-	

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Code: sv Project: 610

Date Received : 07/10/2001

Date Reported : 08/07/2001

Lab ID Number : 5009.2

Quality Checked : WD 8/7/01

COMPOSITION ANALYSIS

Sample Identification: NAL Day 7 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	47.3	946 lbs/ton
Moisture	%	0.0	52.7	126 gals/ton
est. water holding capacity	%	218	69	164 gals/ton
Inert and Oversize Matter	%	~	6.6	132.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	5.39	ExLow
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	21465	10153	V High
Organic Matter	%	70.0	33.1	662 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	6.5	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	24.0	24.0	Med-High
Solvita CO ₂ Rate	(see chart)	~	7	Low
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	7	Mature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.577	0.746	14.9

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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 · New York NY 10004

Code: sv Project: 610

Date Received : 07/10/2001

Date Reported : 08/07/2001

Lab ID Number : 5009.3

Quality Checked : *WO 8/7/01*

COMPOSITION ANALYSIS

Sample Identification: NAL Day 7 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	44.7	894 lbs/ton
Moisture	%	0.0	55.3	133 gals/ton
est. water holding capacity	%	221	69	165 gals/ton
Inert and Oversize Matter	%	~	4.5	90.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	5.49	ExLow
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	21456	9591	High
Organic Matter	%	71.4	31.9	638 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	4.7	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	25.2	25.2	Med-High
Solvita CO ₂ Rate	(see chart)	~	7	Low
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	7	Mature
..... Total Mineral Nutrients.....				
Total Nitrogen	%	1.531	0.684	13.7

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Appendix H: Data from the Four-Facility Survey

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New York NY 10004

Code: sv Project: 610

Date Received : 07/17/2001

Date Reported : 08/13/2001

Lab ID Number : 5019.0

Quality Checked : *WD 8/13/01*

COMPOSITION ANALYSIS

Sample Identification: NAL Day 14 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	55.0	1100 lbs/ton
Moisture	%	0.0	45.0	108 gals/ton
est. water holding capacity	%	211	68	163 gals/ton
Inert and Oversize Matter	%	~	9.9	198.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.42	High
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	1456	801	M Low
Organic Matter	%	67.6	37.2	743 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	4.8	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	18.2	18.2	Medium
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	2	Very Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	2.006	1.103	22.1

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Account: 556

attn: Venetia Lannon
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 44 Beaver Street-8th floor
 New York NY 10004

Code: sv Project: 610

Date Received : 07/17/2001

Date Reported : 08/13/2001

Lab ID Number : 5019.1

Quality Checked : *WD 8/13/01*

COMPOSITION ANALYSIS

Sample Identification: NAL Day 14 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	52.2	1044 lbs/ton
Moisture	%	0.0	47.8	115 gals/ton
est. water holding capacity	%	212	68	163 gals/ton
Inert and Oversize Matter	%	~	4.1	82.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.30	High
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	1628	850	M Low
Organic Matter	%	68.2	35.6	712 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	5.8	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	19.2	19.2	Medium
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients.....				
Total Nitrogen	%	1.918	1.001	20.0

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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 44 Beaver Street-8th floor
 New York NY 10004

Code: syvx Project: 610

Date Received : 07/24/2001

Date Reported : 08/24/2001

Lab ID Number : 5027.0

Quality Checked : WD 8/24/01

COMPOSITION ANALYSIS

Sample Identification: NAL Day 21 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	21	556 lbs/yd ³
Solids	%	100.0	63.8	1276 lbs/ton
Moisture	%	0.0	36.2	87 gals/ton
est. water holding capacity	%	204	67	161 gals/ton
Inert and Oversize Matter	%	~	11.6	232.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.05	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	1489	950	M Low
Organic Matter	%	65.0	41.5	829 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	4.7	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	17.5	17.5	Medium
Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	53	Phytotoxic
<i>Lepidium sativum</i> Weight	%	~	30	V. Poor
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	3	Immature
Total Mineral Nutrients				
Total Nitrogen	%	2.005	1.279	25.6

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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 New York NY 10004

Code: syvx Project: 610

Date Received : 07/24/2001

Date Reported : 08/24/2001

Lab ID Number : 5027.1

Quality Checked : ND 8/24/01

COMPOSITION ANALYSIS

Sample Identification: NAL Day 21 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	22	607 lbs/yd ³
Solids	%	100.0	66.6	1332 lbs/ton
Moisture	%	0.0	33.4	80 gals/ton
est. water holding capacity	%	195	66	158 gals/ton
Inert and Oversize Matter	%	~	7.6	152.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.97	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	2777	1849	Medium
Organic Matter	%	61.7	41.1	821 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	4.5	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	14.9	14.9	M. Low
Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	76	Slight Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	38	Low
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	2	Very Immature
Total Mineral Nutrients				
Total Nitrogen	%	2.233	1.487	29.7

Notes: ppm = mg/kg < = less than MLD (minimum level of detection), nd = none detected

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 New York NY 10004

Code: Ccyvd Project: 610

Date Received : 08/24/2001

Date Reported : 09/24/2001

Lab ID Number : 5073.0

Quality Checked : *WD 9/24/01*

COMPOSITION ANALYSIS

Sample Identification: NAL Day 52 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	59.0	1180 lbs/ton
Moisture	%	0.0	41.0	98 gals/ton
est. water holding capacity	%	174	63	152 gals/ton
Inert and Oversize Matter	%	~	13.1	262.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.52	Very High
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	1186	700	M Low
Organic Matter	%	54.1	31.9	638 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	8.3	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	12.8	12.8	M. Low
Respiration Rate/day ...	C% of Total-C	0.77	0.77	-
Carbon loss per day ...	% of total weight	0.22	0.13	2.6 lbs/ton
Dewar Self-Heating	°C rise	~	1	Grade V
..... Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	92	No Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	45	Low
Solvita CO ₂ Rate	(see chart)	~	4	Med-High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	4	Med-Active

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Account: 556

Code: Ccyvd-Project: 610

· attn: Venetia Lannon

· DQS Waste Prev. Reuse and Recycling

· 44 Beaver Street-8th floor

· New York NY 10004

Date Received : 08/24/2001

Date Reported : 09/24/2001

Lab ID Number : 5073.1

MINERALS ANALYSIS

Sample Identification: NAL Day 52 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
..... Total Mineral Nutrients				
Total Nitrogen	%	2.482	1.353	27.1
Organic-Nitrogen	%	2.388	1.302	26.0
Phosphorus (P)	%	0.479	0.261	5.2
Potassium (K)	%	1.014	0.553	11.1
Sodium (Na)	%	0.491	0.268	5.4
Calcium (Ca)	%	2.774	1.512	30.2
Magnesium (Mg)	%	0.387	0.211	4.2
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	935	510	1.0
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	8666	4723	9.45
Sulfate (SO ₄ -S)	ppm	2851	1554	3.11

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· 44 Beaver Street-8th floor
· New York NY 10004

Date Received : 08/24/2001
Date Reported : 09/24/2001
Lab ID Number : 5073.0

METALS ANALYSIS

Sample Identification: NAL Day 52 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis‡	pounds/ton <i>as is</i>
Copper (Cu)	mg·kg ⁻¹	91.7	54.1	0.1
Manganese (Mn)	mg·kg ⁻¹	233.2	137.6	0.3
Iron (Fe)	mg·kg ⁻¹	10010.1	5906.0	11.8
Zinc (Zn)	mg·kg ⁻¹	389.9	230.0	0.5
Lead (Pb)	mg·kg ⁻¹	100.5	59.3	0.1
Chromium (Cr)	mg·kg ⁻¹	72.4	-	-
Cadmium (Cd)	mg·kg ⁻¹	4.0	-	-
Nickel (Ni)	mg·kg ⁻¹	37.4	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

‡ = EPA reporting requires dry basis only

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Code: Ccyvd Project: 610

Date Received : 08/24/2001

Date Reported : 09/24/2001

Lab ID Number : 5073.1

Quality Checked : WJD 9/24/01

COMPOSITION ANALYSIS

Sample Identification: NAL Day 52 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	54.5	1090 lbs/ton
Moisture	%	0.0	45.5	109 gals/ton
est. water holding capacity	%	169	63	151 gals/ton
Inert and Oversize Matter	%	~	12.6	252.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.72	Very High
Free Carbonates (CO ₃)	Rating	~	1	None
Organic Matter	%	52.4	28.6	571 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	7.8	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	11.4	11.4	M. Low
Respiration Rate/day ...	C% of Total-C	0.85	0.85	-
Carbon loss per day ...	% of total weight	0.24	0.13	2.6 lbs/ton
Dewar Self-Heating	°C rise	~	1	Grade V
Seedling Response Assay, Percent of Control.....				
<i>Lepidium sativum</i> Germination	%	~	84	Slight Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	49	Low
Solvita CO ₂ Rate	(see chart)	~	6	Med-Low
Solvita NH ₃ Rate	(see chart)	~	3	Medium
Maturity Index	(see chart)	~	5	Late-Active

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Account: 556

Code: Ccyvd-Project: 610

attn: Venetia Lannon

DOS Waste Prev. Reuse and Recycling

44 Beaver Street-8th floor

New York NY 10004

Date Received : 08/24/2001

Date Reported : 09/24/2001

Lab ID Number : 5073.1

METALS ANALYSIS

Sample Identification: NAL Day 52 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis‡	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	83.8	45.7	<0.1
Manganese (Mn)	mg·kg ⁻¹	231.5	126.2	0.3
Iron (Fe)	mg·kg ⁻¹	9900.2	5395.6	10.8
Zinc (Zn)	mg·kg ⁻¹	367.3	200.2	0.4
Lead (Pb)	mg·kg ⁻¹	88.6	-	-
Chromium (Cr)	mg·kg ⁻¹	73.9	-	-
Cadmium (Cd)	mg·kg ⁻¹	4.0	-	-
Nickel (Ni)	mg·kg ⁻¹	35.1	-	-

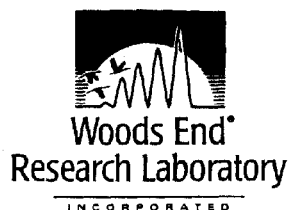
Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

‡ = EPA reporting requires dry basis only

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NAL Final Screen Unders (<8mm)
Sample A



Certificate of Analysis

EPA Method 8081A/8082 - Organochlorine Pesticides/PCB's

Sample Name: 4696.8
Sample Location:
Sampling Date: 7/9/2001
Sampling Time: 15:00
Date Received: 7/11/2001

Lab #: 01X0774-01
Matrix: SOIL
Analyst: HY
Extract Date: 7/13/2001
Analysis Date: 7/24/2001

Analyte	Result	Units	PQL
alpha-BHC:	ND	mg/Kg	0.02
gamma-BHC (Lindane):	ND	mg/Kg	0.02
Heptachlor:	ND	mg/Kg	0.02
Aldrin:	ND	mg/Kg	0.02
beta-BHC:	ND	mg/Kg	0.02
delta-BHC:	ND	mg/Kg	0.02
Heptachlor Epoxide:	ND	mg/Kg	0.02
Endosulfan I:	ND	mg/Kg	0.02
4,4'-DDE:	ND	mg/Kg	0.02
Dieldrin:	ND	mg/Kg	0.02
Endrin:	ND	mg/Kg	0.02
Endosulfan II:	ND	mg/Kg	0.02
4,4'-DDD:	ND	mg/Kg	0.02
4,4'-DDT:	ND	mg/Kg	0.02
Endrin Aldehyde:	ND	mg/Kg	0.02
Endosulfan Sulfate:	ND	mg/Kg	0.02
Methoxychlor:	ND	mg/Kg	0.10
Endrin Ketone:	ND	mg/Kg	0.02
Chlordane:	ND	mg/Kg	0.02
Toxaphene:	ND	mg/Kg	0.2
Arochlor 1016:	ND	mg/Kg	0.2
Arochlor 1221:	ND	mg/Kg	0.2
Arochlor 1232:	ND	mg/Kg	0.2
Arochlor 1242:	ND	mg/Kg	0.2
Arochlor 1248:	ND	mg/Kg	0.2
Arochlor 1254:	ND	mg/Kg	0.2
Arochlor 1260:	ND	mg/Kg	0.2
Surrogate Standard	% Recovery		
TCX %R	62.8		

ND Not Detected PQL Practical Quantitation Limit

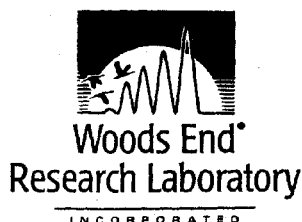
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Appendix H: Data from the Four-Facility Survey

NAL Final Screen Unders (<8mm)

Sample B



Certificate of Analysis

EPA Method 8081A/8082 - Organochlorine Pesticides/PCB's

Sample Name: 4996.9
Sample Location:
Sampling Date: 7/9/2001
Sampling Time: 15:00
Date Received: 7/11/2001

Lab #: 01X0774-02
Matrix: SOIL
Analyst: HY
Extract Date: 7/13/2001
Analysis Date: 7/24/2001

Analyte	Result	Units	PQL
alpha-BHC:	ND	mg/Kg	0.02
gamma-BHC (Lindane):	ND	mg/Kg	0.02
Heptachlor:	ND	mg/Kg	0.02
Aldrin:	ND	mg/Kg	0.02
beta-BHC:	ND	mg/Kg	0.02
delta-BHC:	ND	mg/Kg	0.02
Heptachlor Epoxide:	ND	mg/Kg	0.02
Endosulfan I:	ND	mg/Kg	0.02
4,4'-DDE:	ND	mg/Kg	0.02
Dieldrin:	ND	mg/Kg	0.02
Endrin:	ND	mg/Kg	0.02
Endosulfan II:	ND	mg/Kg	0.02
4,4'-DDD:	ND	mg/Kg	0.02
4,4'-DDT:	ND	mg/Kg	0.02
Endrin Aldehyde:	ND	mg/Kg	0.02
Endosulfan Sulfate:	ND	mg/Kg	0.02
Methoxychlor:	ND	mg/Kg	0.10
Endrin Ketone:	ND	mg/Kg	0.02
Chlordane:	ND	mg/Kg	0.02
Toxaphene:	ND	mg/Kg	0.2
Arochlor 1016:	ND	mg/Kg	0.2
Arochlor 1221:	ND	mg/Kg	0.2
Arochlor 1232:	ND	mg/Kg	0.2
Arochlor 1242:	ND	mg/Kg	0.2
Arochlor 1248:	ND	mg/Kg	0.2
Arochlor 1254:	ND	mg/Kg	0.2
Arochlor 1260:	ND	mg/Kg	0.2

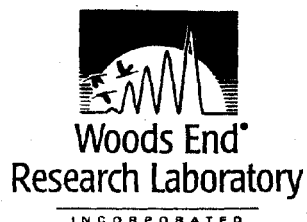
Surrogate Standard	% Recovery
TCX %R	57.9

ND Not Detected PQL Practical Quantitation Limit

EPA 8081 Report Page 2 of 4

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NAL Day 90, Sample A

**Certificate of Analysis**

EPA Method 8081A/8082 - Organochlorine Pesticides/PCB's

Sample Name: 4997.2
 Sample Location:
 Sampling Date: 7/9/2001
 Sampling Time: 15:00
 Date Received: 7/11/2001

Lab #: 01X0774-03
 Matrix: SOIL
 Analyst: HY
 Extract Date: 7/13/2001
 Analysis Date: 7/24/2001

Analyte	Result	Units	PQL
alpha-BHC:	ND	mg/Kg	0.02
gamma-BHC (Lindane):	ND	mg/Kg	0.02
Heptachlor:	ND	mg/Kg	0.02
Aldrin:	ND	mg/Kg	0.02
beta-BHC:	ND	mg/Kg	0.02
delta-BHC:	ND	mg/Kg	0.02
Heptachlor Epoxide:	ND	mg/Kg	0.02
Endosulfan I:	ND	mg/Kg	0.02
4,4'-DDE:	ND	mg/Kg	0.02
Dieldrin:	ND	mg/Kg	0.02
Endrin:	ND	mg/Kg	0.02
Endosulfan II:	ND	mg/Kg	0.02
4,4'-DDD:	ND	mg/Kg	0.02
4,4'-DDT:	ND	mg/Kg	0.02
Endrin Aldehyde:	ND	mg/Kg	0.02
Endosulfan Sulfate:	ND	mg/Kg	0.02
Methoxychlor:	ND	mg/Kg	0.10
Endrin Ketone:	ND	mg/Kg	0.02
Chlordane:	ND	mg/Kg	0.02
Toxaphene:	ND	mg/Kg	0.2
Arochlor 1016:	ND	mg/Kg	0.2
Arochlor 1221:	ND	mg/Kg	0.2
Arochlor 1232:	ND	mg/Kg	0.2
Arochlor 1242:	ND	mg/Kg	0.2
Arochlor 1248:	ND	mg/Kg	0.2
Arochlor 1254:	ND	mg/Kg	0.2
Arochlor 1260:	ND	mg/Kg	0.2

Surrogate Standard	% Recovery
TCX %R	61.9

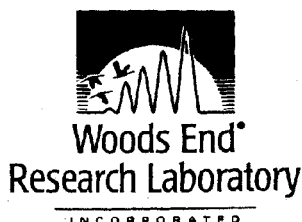
ND Not Detected PQL Practical Quantitation Limit

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Appendix H: Data from the Four-Facility Survey

NAL Day 90, Sample B



Certificate of Analysis

EPA Method 8081A/8082 - Organochlorine Pesticides/PCB's

Sample Name: 4997.3
 Sample Location:
 Sampling Date: 7/9/2001
 Sampling Time: 15:00
 Date Received: 7/11/2001

 Lab #: 01X0774-04
 Matrix: SOIL
 Analyst: HY
 Extract Date: 7/13/2001
 Analysis Date: 7/24/2001

Analyte	Result	Units	PQL
alpha-BHC:	ND	mg/Kg	0.02
gamma-BHC (Lindane):	ND	mg/Kg	0.02
Heptachlor:	ND	mg/Kg	0.02
Aldrin:	ND	mg/Kg	0.02
beta-BHC:	ND	mg/Kg	0.02
delta-BHC:	ND	mg/Kg	0.02
Heptachlor Epoxide:	ND	mg/Kg	0.02
Endosulfan I:	ND	mg/Kg	0.02
4,4'-DDE:	ND	mg/Kg	0.02
Dieldrin:	ND	mg/Kg	0.02
Endrin:	ND	mg/Kg	0.02
Endosulfan II:	ND	mg/Kg	0.02
4,4'-DDD:	ND	mg/Kg	0.02
4,4'-DDT:	ND	mg/Kg	0.02
Endrin Aldehyde:	ND	mg/Kg	0.02
Endosulfan Sulfate:	ND	mg/Kg	0.02
Methoxychlor:	ND	mg/Kg	0.10
Endrin Ketone:	ND	mg/Kg	0.02
Chlordane:	ND	mg/Kg	0.02
Toxaphene:	ND	mg/Kg	0.2
Arochlor 1016:	ND	mg/Kg	0.2
Arochlor 1221:	ND	mg/Kg	0.2
Arochlor 1232:	ND	mg/Kg	0.2
Arochlor 1242:	ND	mg/Kg	0.2
Arochlor 1248:	ND	mg/Kg	0.2
Arochlor 1254:	ND	mg/Kg	0.2
Arochlor 1260:	ND	mg/Kg	0.2
Surrogate Standard	% Recovery		
TCX %R	81.9		

Lab Supervisor:

Walter D. Dyer

Report Date:

25-Jul-01

ND Not Detected

PQL Practical Quantitation Limit

EPA 8081 Report

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Woods End Research Laboratory, Inc.
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INERTS CHARACTERIZATION

Client:
 attn: Venetia Lannon
 DOS Waste Prev. Reuse and Recycling
 44 Beaver Street-8th floor
 New York NY 10004

Date: 27-Jun-01
 Project: 610
 Acct#: 556

Initials: EE
 Ref: _____

Lab No: 4996.8 Description: NAL Final Facility Unders (<8mm), Sample A

Weight In, g:	380				
FRACTION: Over 10mm	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of over-10 mm, dry basis	
Glass	0.0	0.0	0.00%	0.0%	
Plastic-Hard	0.0	0.0	0.00%	0.0%	
Plastic-Film	0.0	0.0	0.00%	0.0%	
Metal	0.0	0.0	0.00%	0.0%	
Textile, fibers	0.0	0.0	0.00%	0.0%	
Paper	0.0	0.0	0.00%	0.0%	
Wood	0.0	0.0	0.00%	0.0%	
Stones	0.0	0.0	0.00%	0.0%	
Bone, shell	0.0	0.0	0.00%	0.0%	
Compost	0.0	0.0	0.00%	0.0%	
TOTAL WEIGHT	0.0	0.0	0.0%	0.0%	

Total Man-made Inerts Matter = 0.0%

Weight In, g:	379.90				
FRACTION: Under 10mm	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of under-10 mm, dry basis	
Glass	3.3	3.3	1.30%	1.3%	
Plastic-Hard	3.0	3.0	1.18%	1.2%	
Plastic-Film	1.2	1.2	0.47%	0.5%	
Metal	0.2	0.2	0.08%	0.1%	
Textile, fibers	1.6	1.1	0.42%	0.4%	
Paper	8.5	5.6	2.21%	2.2%	
Wood	3.4	2.2	0.89%	0.9%	
Stones	0.3	0.3	0.12%	0.1%	
Bone, shell	0.4	0.3	0.10%	0.1%	
Compost + Fines	358.0	236.3	93.22%	93.2%	
TOTAL WEIGHT	379.9	253.5	100.0%	100.0%	

> 4mm

Total Man-made Inerts Matter = 3.5%

Printed: 10-19-01

Woods End Research Laboratory, Inc.
20 Old Rome Road - Mt Vernon ME 04352

INERTS CHARACTERIZATION

Client:
 attn: Venetia Lannon
 DOS Waste Prev. Reuse and Recycling
 44 Beaver Street-8th floor
 New York NY 10004

Date: 27-Jun-01
 Project: 610
 Acct#: 556

Initials EE
 Ref:

Lab No: 4996.9 Description: NAL Final Facility Unders (<8mm), Sample B

Weight In, g: 769

FRACTION: Over 10mm	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of over-10 mm, dry basis
	Glass	0.0	0.0	0.00%
	Plastic-Hard	0.0	0.0	0.00%
	Plastic-Film	0.0	0.0	0.00%
	Metal	0.0	0.0	0.00%
	Textile, fibers	0.0	0.0	0.00%
	Paper	0.0	0.0	0.00%
	Wood	0.0	0.0	0.00%
	Stones	0.0	0.0	0.00%
	Bone, shell	0.0	0.0	0.00%
	Compost	0.0	0.0	0.00%
TOTAL WEIGHT		0.0	0.0	0.0%

Total Man-made Inerts Matter = 0.0%

Weight In, g: 769.30

FRACTION: Under 10mm	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of under-10 mm, dry basis
	Glass	11.5	11.5	2.27%
	Plastic-Hard	5.7	5.7	1.12%
	Plastic-Film	1.6	1.6	0.32%
	Metal	0.0	0.0	0.00%
	Textile, fibers	2.4	1.6	0.31%
	Paper	19.0	12.4	2.43%
	Wood	9.2	6.0	1.18%
	Stones	2.1	2.1	0.41%
	Bone, shell	1.8	1.2	0.23%
	Compost + Fines	716.0	465.4	91.73%
TOTAL WEIGHT		769.3	507.4	100.0%

> 4mm

Total Man-made Inerts Matter = 4.0%

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 44 Beaver Street-8th floor
 New York NY 10004

Date: 27-Jun-01
 Project: 610
 Acct#: 556
 Initials: JE
 Ref: _____

Lab No: **4997.0** Description: **NAL Final Facility Overs (>8mm), Sample A**

Weight In, g:	1703				
FRACTION: <u>Over 10mm</u>	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of over-10 mm, dry basis	
	Glass	98.0	98.0	6.57%	11.7%
	Plastic-Hard	151.0	151.0	10.12%	18.0%
	Plastic-Film	124.0	124.0	8.31%	14.8%
	Metal	55.0	55.0	3.68%	6.6%
	Textile, fibers	79.0	52.1	3.49%	6.2%
	Paper	24.0	15.8	1.06%	1.9%
	Wood	117.0	77.2	5.17%	9.2%
	Stones	182.0	182.0	12.19%	21.7%
	Bone, shell	128.0	84.5	5.66%	10.1%
	Compost	0.0	0.0	0.00%	0.0%
	TOTAL WEIGHT	958.0	839.7	56.3%	100.0%

Total Man-made Inerts Matter = 57.2%

Weight In, g:	272.25				
FRACTION: <u>Under 10mm</u>	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of under-10 mm, dry basis	
	Glass	3.1	3.1	1.63%	3.7%
	Plastic-Hard	0.4	0.4	0.21%	0.5%
	Plastic-Film	5.2	5.2	2.73%	6.2%
	Metal	0.0	0.0	0.00%	0.0%
	Textile, fibers	7.1	4.7	2.46%	5.6%
	Paper	15.1	10.0	5.23%	12.0%
	Wood	1.5	1.0	0.52%	1.2%
	Stones	5.3	5.3	2.78%	6.4%
	Bone, shell	0.0	0.0	0.00%	0.0%
	Compost + Fines	81.4	53.7	28.19%	64.4%
	TOTAL WEIGHT	119.1	83.4	43.7%	100.0%

Total Man-made Inerts Matter = 16.1%

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Client:
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 44 Beaver Street-8th floor
 New York NY 10004

Date: 27-Jun-01
 Project: 610
 Acct#: 556
 Initials: DE
 Ref: _____

Lab No: **4997.1** Description: **NAL Final Facility Overs (>8mm), Sample B**

1351	Weight In, g:	1351				
			LAB	dry weight,	percent	percent of
	FRACTION:	Over 10mm	SORT	grams	of whole,	over-10 mm,
					dry basis	dry basis
152.0		Glass	152.0	152.0	12.26%	23.9%
135.0		Plastic-Hard	135.0	135.0	10.89%	21.2%
143.0		Plastic-Film	143.0	143.0	11.54%	22.5%
17.0		Metal	17.0	17.0	1.37%	2.7%
95.0		Textile, fibers	95.0	62.7	5.06%	9.9%
10.0		Paper	10.0	6.6	0.53%	1.0%
58.0		Wood	58.0	38.3	3.09%	6.0%
78.0		Stones	78.0	78.0	6.29%	12.3%
5.0		Bone, shell	5.0	3.3	0.27%	0.5%
0.0		Compost	0.0	0.0	0.00%	0.0%
		TOTAL WEIGHT	693.0	635.9	51.3%	100.0%

Total Man-made Inerts Matter = **80.2%**

	Weight In, g:	285.80				
			LAB	dry weight,	percent	percent of
	FRACTION:	Under 10mm	SORT	grams	of whole,	under-10 mm
					dry basis	dry basis
4.2		Glass	4.2	4.2	2.11%	4.3%
1.3		Plastic-Hard	1.3	1.3	0.65%	1.3%
4.8		Plastic-Film	4.8	4.8	2.41%	4.9%
0.1		Metal	0.1	0.1	0.05%	0.1%
0.0		Textile, fibers	3.6	2.4	1.19%	2.4%
> 4mm		Paper	4.6	3.0	1.52%	3.1%
2.4		Wood	2.4	1.6	0.79%	1.6%
5.2		Stones	5.2	5.2	2.61%	5.4%
0.0		Bone, shell	0.0	0.0	0.00%	0.0%
113.0		Compost + Fines	113.0	74.6	37.38%	76.7%
		TOTAL WEIGHT	139.2	97.2	48.7%	100.0%

Total Man-made Inerts Matter = **13.1%**

Printed: 10-19-01

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 Mount Vernon, ME 04352/USA
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Account: 556

· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

· 44 Beaver Street-8th floor

· New York NY 10004

Code: Ccvd Project: 610

Date Received : 07/19/2001

Date Reported : 09/12/2001

Lab ID Number : 5021.0

Quality Checked : *WD 9/12/01*

COMPOSITION ANALYSIS

Sample Identification: NML Primary Screen Unders (<2"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	46	1230 lbs/yd ³
Solids	%	100.0	37.5	750 lbs/ton
Moisture	%	0.0	62.5	150 gals/ton
est. water holding capacity	%	252	72	172 gals/ton
Inert and Oversize Matter	%	~	7.5	150.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	6.13	V Low
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	17977	6741	High
Organic Matter	%	82.7	31.0	620 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	7.0	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	33.7	33.7	Med-High
Respiration Rate/day ...	C% of Total-C	2.31	2.31	-
Carbon loss per day ...	% of total weight	1.03	0.39	7.7 lbs/ton
Dewar Self-Heating	°C rise	~	42	Grade I
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	2	Very Immature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Code: Ccvd-Project: 610

attn: Venetia Lannon

DOS Waste Prev. Reuse and Recycling

Date Received : 07/19/2001

44 Beaver Street-8th floor

Date Reported : 09/12/2001

New York NY 10004

Lab ID Number : 5021.0

MINERALS ANALYSIS

Sample Identification: NML Primary Screen Unders (<2"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
Total Mineral Nutrients				
Total Nitrogen	%	1.325	0.497	9.9
Organic-Nitrogen	%	1.044	0.391	7.8
Phosphorus (P)	%	0.424	0.159	3.2
Potassium (K)	%	0.216	0.081	1.6
Sodium (Na)	%	0.360	0.135	2.7
Calcium (Ca)	%	1.776	0.666	13.3
Magnesium (Mg)	%	0.169	0.063	1.3
Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	2810	1054	2.1
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	2950	1106	2.21
Sulfate (SO ₄ -S)	ppm	1236	463	0.93

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· DOS Waste Prev. Reuse and Recycling

· 44 Beaver Street-8th floor

· New York NY 10004

Date Received : 07/19/2001

Date Reported : 09/12/2001

Lab ID Number : 5021.0

METALS ANALYSIS

Sample Identification: NML Primary Screen Unders (<2"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg.kg ⁻¹	84.8	31.8	<0.1
Manganese (Mn)	mg.kg ⁻¹	800.0	300.0	0.6
Iron (Fe)	mg.kg ⁻¹	9200.0	3450.0	6.9
Zinc (Zn)	mg.kg ⁻¹	392.0	147.0	0.3
Lead (Pb)	mg.kg ⁻¹	78.8	-	-
Chromium (Cr)	mg.kg ⁻¹	36.0	-	-
Cadmium (Cd)	mg.kg ⁻¹	2.4	-	-
Nickel (Ni)	mg.kg ⁻¹	30.4	-	-

Notes: mg.kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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· 44 Beaver Street-8th floor
· New York NY 10004

Code: Ccvd Project: 610
Date Received : 07/19/2001
Date Reported : 09/12/2001
Lab ID Number : 5021.1
Quality Checked : *WD 9/12/01*

COMPOSITION ANALYSIS

Sample Identification: NML Primary Screen Unders (<2"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	44	1196 lbs/yd ³
Solids	%	100.0	40.8	816 lbs/ton
Moisture	%	0.0	59.2	142 gals/ton
est. water holding capacity	%	249	71	171 gals/ton
Inert and Oversize Matter	%	~	7.6	152.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	6.25	V Low
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	22202	9058	High
Organic Matter	%	81.6	33.3	666 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	6.5	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	32.8	32.8	Med-High
Respiration Rate/day ...	C% of Total-C	2.22	2.22	-
Carbon loss per day ...	% of total weight	0.98	0.40	8.0 lbs/ton
Dewar Self-Heating	°C rise	~	40	Grade II
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	2	Very Immature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

· 44 Beaver Street-8th floor

· New York NY 10004

Date Received : 07/19/2001

Date Reported : 09/12/2001

Lab ID Number : 5021.1

MINERALS ANALYSIS

Sample Identification: NML Primary Screen Unders (<2"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
..... Total Mineral Nutrients				
Total Nitrogen	%	1.344	0.548	11.0
Organic-Nitrogen	%	1.085	0.443	8.9
Phosphorus (P)	%	0.496	0.202	4.0
Potassium (K)	%	0.228	0.093	1.9
Sodium (Na)	%	0.360	0.147	2.9
Calcium (Ca)	%	1.764	0.720	14.4
Magnesium (Mg)	%	0.182	0.074	1.5
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	2588	1056	2.1
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	3059	1248	2.50
Sulfate (SO ₄ -S)	ppm	965	394	0.79

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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44 Beaver Street-8th floor
New York NY 10004

Date Received : 07/19/2001
Date Reported : 09/12/2001
Lab ID Number : 5021.1

METALS ANALYSIS

Sample Identification: NML Primary Screen Unders (<2"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis‡	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	84.0	34.3	<0.1
Manganese (Mn)	mg·kg ⁻¹	784.0	319.9	0.6
Iron (Fe)	mg·kg ⁻¹	9400.0	3835.2	7.7
Zinc (Zn)	mg·kg ⁻¹	400.0	163.2	0.3
Lead (Pb)	mg·kg ⁻¹	80.0	-	-
Chromium (Cr)	mg·kg ⁻¹	36.4	-	-
Cadmium (Cd)	mg·kg ⁻¹	2.4	-	-
Nickel (Ni)	mg·kg ⁻¹	31.6	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

‡ = EPA reporting requires dry basis only

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 · DOS Waste Prev. Reuse and Recycling
 · 44 Beaver Street-8th floor
 · New York NY 10004

Code: svd Project: 610

Date Received : 07/19/2001

Date Reported : 09/12/2001

Lab ID Number : 5021.7

Quality Checked : WD 9/12/01

COMPOSITION ANALYSIS

Sample Identification: NML Day 7, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	46	1230 lbs/yd ³
Solids	%	100.0	43.4	868 lbs/ton
Moisture	%	0.0	56.6	136 gals/ton
est. water holding capacity	%	244	71	170 gals/ton
Inert and Oversize Matter	%	~	5.7	114.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	5.66	ExLow
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	9110	3954	M High
Organic Matter	%	79.6	34.5	691 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	8.3	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	32.6	32.6	Med-High
Dewar Self-Heating	°C rise	~	47	Grade I
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	2	Very Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.317	0.572	11.4

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: svd Project: 610

Date Received : 07/19/2001

Date Reported : 09/12/2001

Lab ID Number : 5021.8

Quality Checked : WD 9/12/01

COMPOSITION ANALYSIS

Sample Identification: NML Day 7, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	46	1230 lbs/yd ³
Solids	%	100.0	42.5	850 lbs/ton
Moisture	%	0.0	57.5	138 gals/ton
est. water holding capacity	%	245	71	170 gals/ton
Inert and Oversize Matter	%	~	5.5	110.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	5.50	ExLow
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	9995	4248	High
Organic Matter	%	80.1	34.0	681 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	8.6	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	33.1	33.1	Med-High
Dewar Self-Heating	°C rise	~	40	Grade II
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	2	Very Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.307	0.555	11.1

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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 · New York NY 10004

Code: svd Project: 610

Date Received : 07/19/2001

Date Reported : 09/12/2001

Lab ID Number : 5021.9

Quality Checked : WOD 9/12/01

COMPOSITION ANALYSIS

Sample Identification: NML Day 14, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs·ft ³	-	38	1028 lbs/yd ³
Solids	%	100.0	46.7	934 lbs/ton
Moisture	%	0.0	53.3	128 gals/ton
est. water holding capacity	%	247	71	171 gals/ton
Inert and Oversize Matter	%	~	4.3	86.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	6.91	Med Low
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	24068	11240	V High
Organic Matter	%	80.7	37.7	753 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	8.2	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	35.4	35.4	High
Dewar Self-Heating	°C rise	~	43	Grade I
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	3	Medium
Maturity Index	(see chart)	~	2	Very Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.232	0.575	11.5

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Appendix H: Data from the Four-Facility Survey

Woods End Research Laboratory, Inc.

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207-293-2457 FAX: 207-293-2488 www.woodsend.org

Account: 556

· attn: Venetia Lannon
· DOS Waste Prev. Reuse and Recycling
· 44 Beaver Street-8th floor
· New York NY 10004

Code: svd Project: 610

Date Received : 07/19/2001

Date Reported : 09/12/2001

Lab ID Number : 5022.0

Quality Checked : *WD 9/12/01*

COMPOSITION ANALYSIS

Sample Identification: NML Day 14, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	40	1078 lbs/yd ³
Solids	%	100.0	45.6	912 lbs/ton
Moisture	%	0.0	54.4	130 gals/ton
est. water holding capacity	%	247	71	171 gals/ton
Inert and Oversize Matter	%	~	3.1	62.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	6.34	V Low
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	26233	11962	V High
Organic Matter	%	80.7	36.8	736 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	8.2	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	33.6	33.6	Med-High
Dewar Self-Heating	°C rise	~	41	Grade I
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	3	Medium
Maturity Index	(see chart)	~	2	Very Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.297	0.591	11.8

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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DOS Waste Prev. Reuse and Recycling

44 Beaver Street-8th floor

New York NY 10004

Code: CScyvdX Project: 610

Date Received : 07/19/2001

Date Reported : 09/12/2001

Lab ID Number : 5022.1

Quality Checked :

COMPOSITION ANALYSIS

Sample Identification: NML Day 21, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	41	1112 lbs/yd ³
Solids	%	100.0	47.1	942 lbs/ton
Moisture	%	0.0	52.9	127 gals/ton
est. water holding capacity	%	236	70	168 gals/ton
Inert and Oversize Matter	%	~	3.4	68.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	6.16	V Low
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	38561	18162	V High
Organic Matter	%	76.7	36.1	722 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	9.6	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	37.0	37.0	High
Respiration Rate/day	% of Total-C	<0.1	<0.1	-
Carbon loss per day ...	% of total weight	0.03	0.01	0.3 lbs/ton
Dewar Self-Heating	°C rise	~	33	Grade II
..... Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	93	No Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	53	Fair
Solvita CO ₂ Rate	(see chart)	~	6	Med-Low
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	6	Active-Curing

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

Appendix H: Data from the Four-Facility Survey

Woods End Research Laboratory, Inc.

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· 44 Beaver Street-8th floor
· New York NY 10004

Code: CScyvdX Project: 610

Date Received : 07/19/2001

Date Reported : 09/12/2001

Lab ID Number : 5022.2

Quality Checked : *W0 9/12/01*

COMPOSITION ANALYSIS

Sample Identification: NML Day 21, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs·ft ³	-	45	1213 lbs/yd ³
Solids	%	100.0	41.7	834 lbs/ton
Moisture	%	0.0	58.3	140 gals/ton
est. water holding capacity	%	240	71	169 gals/ton
Inert and Oversize Matter	%	~	4.3	86.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	5.97	ExLow
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	58397	24352	V High
Organic Matter	%	78.3	32.6	653 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	10.3	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	40.8	40.8	High
Respiration Rate/day	% of Total-C	<0.1	<0.1	-
Carbon loss per day ...	% of total weight	<0.01	<0.01	-
Dewar Self-Heating	°C rise	~	43	Grade I
..... Seedling Response Assay, Percent of Control.....				
<i>Lepidium sativum</i> Germination	%	~	83	Slight Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	44	Low
Solvita CO ₂ Rate	(see chart)	~	8	V. Low
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	8	Very Mature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· DOS Waste Prev. Reuse and Recycling

· 44 Beaver Street-8th floor

· New York NY 10004

Date Received : 07/19/2001

Date Reported : 09/12/2001

Lab ID Number : 5022.1

MINERALS ANALYSIS

Sample Identification: NML Day 21, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
..... Total Mineral Nutrients				
Total Nitrogen	%	1.120	0.528	10.6
Organic-Nitrogen	%	0.686	0.323	6.5
Phosphorus (P)	%	0.388	0.183	3.7
Potassium (K)	%	0.204	0.096	1.9
Sodium (Na)	%	0.364	0.171	3.4
Calcium (Ca)	%	2.200	1.036	20.7
Magnesium (Mg)	%	0.196	0.092	1.8
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	4334	2041	4.1
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	3674	1731	3.46
Sulfate (SO ₄ -S)	ppm	1606	757	1.51

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· New York NY 10004

Date Received : 07/19/2001
Date Reported : 09/12/2001
Lab ID Number : 5022.2

MINERALS ANALYSIS

Sample Identification: NML Day 21, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
..... Total Mineral Nutrients				
Total Nitrogen	%	1.036	0.432	8.6
Organic-Nitrogen	%	1.022	0.426	8.5
Phosphorus (P)	%	0.444	0.185	3.7
Potassium (K)	%	0.208	0.087	1.7
Sodium (Na)	%	0.392	0.163	3.3
Calcium (Ca)	%	1.872	0.781	15.6
Magnesium (Mg)	%	0.166	0.069	1.4
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	133	55	0.1
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	3509	1463	2.93
Sulfate (SO ₄ -S)	ppm	1163	485	0.97

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· New York NY 10004

Date Received : 07/19/2001

Date Reported : 09/12/2001

Lab ID Number : 5022.1

METALS ANALYSIS

Sample Identification: NML Day 21, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis‡	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	96.8	45.6	<0.1
Manganese (Mn)	mg·kg ⁻¹	472.0	222.3	0.4
Iron (Fe)	mg·kg ⁻¹	9120.0	4295.5	8.6
Zinc (Zn)	mg·kg ⁻¹	388.0	182.7	0.4
Lead (Pb)	mg·kg ⁻¹	97.2	-	-
Chromium (Cr)	mg·kg ⁻¹	26.0	-	-
Cadmium (Cd)	mg·kg ⁻¹	2.8	-	-
Nickel (Ni)	mg·kg ⁻¹	38.0	-	-
Arsenic (As)	mg·kg ⁻¹	3.1	-	-
Mercury (Hg)	mg·kg ⁻¹	0.65	-	-
Molybdenum (Mo)	mg·kg ⁻¹	5.9	-	-
Selenium (Se)	mg·kg ⁻¹	1.6	-	-
BACTERIOLOGIC ANALYSIS.....				
Fecal coliform EPA503	MPN per g	< 4.0	-	-
Total <i>Salmonella</i> EPA503 ..	MPN per 4g	< 1.6	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

‡ = EPA reporting requires dry basis only

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Appendix H: Data from the Four-Facility Survey

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Account: 556

Code: CScyvdX-Project: 610

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44 Beaver Street-8th floor
New York NY 10004

Date Received : 07/19/2001
Date Reported : 09/12/2001
Lab ID Number : 5022.2

METALS ANALYSIS

Sample Identification: NML Day 21, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	101.2	42.2	<0.1
Manganese (Mn)	mg·kg ⁻¹	388.0	161.8	0.3
Iron (Fe)	mg·kg ⁻¹	9320.0	3886.4	7.8
Zinc (Zn)	mg·kg ⁻¹	412.0	171.8	0.3
Lead (Pb)	mg·kg ⁻¹	86.8	-	-
Chromium (Cr)	mg·kg ⁻¹	29.2	-	-
Cadmium (Cd)	mg·kg ⁻¹	2.8	-	-
Nickel (Ni)	mg·kg ⁻¹	33.2	-	-
Arsenic (As)	mg·kg ⁻¹	3.0	-	-
Mercury (Hg)	mg·kg ⁻¹	0.62	-	-
Molybdenum (Mo)	mg·kg ⁻¹	3.6	-	-
Selenium (Se)	mg·kg ⁻¹	1.8	-	-

BACTERIOLOGIC ANALYSIS.....

Fecal coliform EPA503	MPN per g	< 4.8	-
Total <i>Salmonella</i> EPA503 ..	MPN per 4g	< 1.9	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Code: x Project: 610

Date Received : 09/07/2001

Date Reported : 10/02/2001

Lab ID Number : 5084.0

Quality Checked : WD 10/2/01

COMPOSITION ANALYSIS

Sample Identification: NML Final Product Loam Blend (<3/8"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	79.2	1584 lbs/ton
Moisture	%	0.0	20.8	50 gals/ton
est. water holding capacity	%	50	33	80 gals/ton
Organic Matter	%	9.1	7.2	144 lbs/ton
Solvita CO ₂ Rate	(see chart)	~	7	Low
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	7	Mature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: sv Project: 610

Date Received : 07/27/2001

Date Reported : 08/27/2001

Lab ID Number : 5030.0

Quality Checked : *WD 8/27/01*

COMPOSITION ANALYSIS

Sample Identification: NML Day 7 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	34	927 lbs/yd ³
Solids	%	100.0	41.7	834 lbs/ton
Moisture	%	0.0	58.3	140 gals/ton
est. water holding capacity	%	240	71	169 gals/ton
Inert and Oversize Matter	%	~	5.1	102.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.55	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	7080	2952	M High
Organic Matter	%	78.2	32.6	653 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	3.1	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	31.2	31.2	Med-High
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	2	High
Maturity Index	(see chart)	~	1	Raw Waste!
..... Total Mineral Nutrients				
Total Nitrogen	%	1.353	0.564	11.3

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected.

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· New York NY 10004

Code: sv Project: 610

Date Received : 07/27/2001

Date Reported : 08/27/2001

Lab ID Number : 5030.1

Quality Checked : 8/27/01 *wo*

COMPOSITION ANALYSIS

Sample Identification: NML Day 7 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	37	994 lbs/yd ³
Solids	%	100.0	40.8	816 lbs/ton
Moisture	%	0.0	59.2	142 gals/ton
est. water holding capacity	%	246	71	170 gals/ton
Inert and Oversize Matter	%	~	7.2	144.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.60	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	2452	1000	Medium
Organic Matter	%	80.3	32.8	655 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	3.0	Med-Low
Carbon:Nitrogen (C:N) Ratio	w:w	30.6	30.6	Med-High
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	3	Medium
Maturity Index	(see chart)	~	1	Raw Waste!
..... Total Mineral Nutrients				
Total Nitrogen	%	1.419	0.579	11.6

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Appendix H: Data from the Four-Facility Survey

Woods End Research Laboratory, Inc.

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Account: 556

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· 44 Beaver Street-8th floor
· New York NY 10004

Code: sv Project: 610

Date Received : 08/03/2001

Date Reported : 09/13/2001

Lab ID Number : 5045.0

Quality Checked : WD 9/13/01

COMPOSITION ANALYSIS

Sample Identification: NML Day 14 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	42	1129 lbs/yd ³
Solids	%	100.0	39.9	798 lbs/ton
Moisture	%	0.0	60.1	144 gals/ton
est. water holding capacity	%	235	70	168 gals/ton
Inert and Oversize Matter	%	~	13.2	264.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.49	Med-Ideal
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	1506	601	M Low
Organic Matter	%	76.2	30.4	608 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	3.5	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	27.7	27.7	Med-High
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.483	0.592	11.8

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Account: 556

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 44 Beaver Street-8th floor
 New York NY 10004

Code: sv Project: 610

Date Received : 08/03/2001

Date Reported : 09/13/2001

Lab ID Number : 5045.1

Quality Checked : *WD 9/13/01*

COMPOSITION ANALYSIS

Sample Identification: NML Day 14 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs·ft ³	-	35	944 lbs/yd ³
Solids	%	100.0	43.0	860 lbs/ton
Moisture	%	0.0	57.0	137 gals/ton
est. water holding capacity	%	233	70	168 gals/ton
Inert and Oversize Matter	%	~	7.9	158.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.35	Med-Ideal
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	1510	649	M Low
Organic Matter	%	75.8	32.6	652 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	2.5	Med-Low
Carbon:Nitrogen (C:N) Ratio	w:w	27.7	27.7	Med-High
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.480	0.636	12.7

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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44 Beaver Street-8th floor
New York NY 10004

Code: svyx Project: 610

Date Received : 08/10/2001

Date Reported : 09/20/2001

Lab ID Number : 5054.0

Quality Checked : W/D 9/20/01

COMPOSITION ANALYSIS

Sample Identification: NML Day 21 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	52.7	1054 lbs/ton
Moisture	%	0.0	47.3	113 gals/ton
est. water holding capacity	%	193	66	158 gals/ton
Inert and Oversize Matter	%	~	8.0	160.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.64	MedHigh
Free Carbonates (CO ₃)	Rating	~	3	V High
Volatile Organic Acids	ppm	1139	600	M Low
Organic Matter	%	61.1	32.2	644 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	3.8	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	15.3	15.3	M. Low
..... Seedling Response Assay, Percent of Control.....				
<i>Lepidium sativum</i> Germination	%	~	76	Slight Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	20	V. Poor
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	2.151	1.134	22.7

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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 · New York NY 10004

Code: svyx Project: 610

Date Received : 08/10/2001

Date Reported : 09/20/2001

Lab ID Number : 5054.1

Quality Checked : W.D. 9/20/01

COMPOSITION ANALYSIS

Sample Identification: NML Day 21 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	56.8	1136 lbs/ton
Moisture	%	0.0	43.2	104 gals/ton
est. water holding capacity	%	216	68	164 gals/ton
Inert and Oversize Matter	%	~	7.8	156.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.70	MedHigh
Free Carbonates (CO ₃)	Rating	~	3	V High
Volatile Organic Acids	ppm	1144	650	M Low
Organic Matter	%	69.3	39.4	788 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	4.6	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	17.0	17.0	M. Low
..... Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	63	Phytotoxic
<i>Lepidium sativum</i> Weight	%	~	18	V. Poor
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	2	Very Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	2.208	1.254	25.1

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Woods End Research Laboratory, Inc.

Old Rome Road, P.O. Box 297

Mount Vernon, ME 04352/USA

207-293-2457 FAX: 207-293-2488 www.woodsendlab.org

Account: 556

· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

· 44 Beaver Street-8th floor

· New York NY 10004

Code: Ccvdyx Project: 610

Date Received : 09/11/2001

Date Reported : 10/11/2001

Lab ID Number : 5086.0

Quality Checked : WLD 10/11/01

COMPOSITION ANALYSIS

Sample Identification: NML Day 53 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	31	826 lbs/yd ³
Solids	%	100.0	51.2	1024 lbs/ton
Moisture	%	0.0	48.8	117 gals/ton
est. water holding capacity	%	198	66	159 gals/ton
Inert and Oversize Matter	%	~	11.1	222.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.05	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	1173	601	M Low
Organic Matter	%	63.0	32.3	645 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	6.5	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	11.6	11.6	M. Low
Respiration Rate/day ...	C% of Total-C	1.08	1.08	-
Carbon loss per day ...	% of total weight	0.37	0.19	3.8 lbs/ton
Dewar Self-Heating	°C rise	~	1	Grade V
..... Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	95	No Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	69	Fair
Solvita CO ₂ Rate	(see chart)	~	6	Med-Low
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	6	Active-Curing

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Account: 556

Code: Ccvdyx-Project: 610

· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

· 44 Beaver Street-8th floor

· New York NY 10004

Date Received : 09/11/2001

Date Reported : 10/11/2001

Lab ID Number : 5086.0

MINERALS ANALYSIS

Sample Identification: NML Day 53 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
..... Total Mineral Nutrients.....				
Total Nitrogen	%	2.930	1.500	30.0
Organic-Nitrogen	%	2.892	1.481	29.6
Phosphorus (P)	%	0.677	0.347	6.9
Potassium (K)	%	0.389	0.199	4.0
Sodium (Na)	%	0.601	0.308	6.2
Calcium (Ca)	%	3.146	1.611	32.2
Magnesium (Mg)	%	0.281	0.144	2.9
..... Soluble Nutrients.....				
Ammonium-N (NH ₄ -N)	ppm	378	194	0.4
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	6456	3306	6.61
Sulfate (SO ₄ -S)	ppm	1070	548	1.10

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Appendix H: Data from the Four-Facility Survey

Woods End Research Laboratory, Inc.

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207-293-2457 FAX: 207-293-2488 www.woodsend.org

Account: 556

Code: Ccvdyx-Project: 610

· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

Date Received : 09/11/2001

· 44 Beaver Street-8th floor

Date Reported : 10/11/2001

· New York NY 10004

Lab ID Number : 5086.0

METALS ANALYSIS

Sample Identification: NML Day 53 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton <i>as is</i>
Copper (Cu)	mg·kg ⁻¹	120.2	61.5	0.1
Manganese (Mn)	mg·kg ⁻¹	1010.0	517.1	1.0
Iron (Fe)	mg·kg ⁻¹	8016.0	4104.2	8.2
Zinc (Zn)	mg·kg ⁻¹	352.7	180.6	0.4
Lead (Pb)	mg·kg ⁻¹	121.4	62.2	0.1
Chromium (Cr)	mg·kg ⁻¹	46.5	-	-
Cadmium (Cd)	mg·kg ⁻¹	4.4	-	-
Nickel (Ni)	mg·kg ⁻¹	60.5	31.0	0.1

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Woods End Research Laboratory, Inc.

Old Rome Road, P.O. Box 297
 Mount Vernon, ME 04352/USA
 207-293-2457 FAX: 207-293-2488 www.woodsend.org

Account: 556

· attn: Venetia Lannon
 · DOS Waste Prev. Reuse and Recycling
 · 44 Beaver Street-8th floor
 · New York NY 10004

Code: Ccvdyx Project: 610

Date Received : 09/11/2001

Date Reported : 10/11/2001

Lab ID Number : 5086.1

Quality Checked : *WLD 10/11/01*

COMPOSITION ANALYSIS

Sample Identification: NML Day 53 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	31	842 lbs/yd ³
Solids	%	100.0	52.3	1046 lbs/ton
Moisture	%	0.0	47.7	114 gals/ton
est. water holding capacity	%	211	68	163 gals/ton
Inert and Oversize Matter	%	~	12.1	242.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.83	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	1147	600	M Low
Organic Matter	%	67.7	35.4	708 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	4.7	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	14.5	14.5	M. Low
Respiration Rate/day ...	C% of Total-C	1.18	1.18	-
Carbon loss per day ...	% of total weight	0.43	0.23	4.5 lbs/ton
Dewar Self-Heating	°C rise	~	1	Grade V
..... Seedling Response Assay, Percent of Control				
<i>Lepedium sativum</i> Germination	%	~	103	No Phytotoxicity
<i>Lepedium sativum</i> Weight	%	~	50	Fair
Solvita CO ₂ Rate	(see chart)	~	5	Medium
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	5	Late-Active

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

Appendix H: Data from the Four-Facility Survey

Woods End Research Laboratory, Inc.

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Mount Vernon, ME 04352/USA
207-293-2457 FAX: 207-293-2488 www.woodsend.org

Account: 556

Code: Ccvdyx-Project: 610

· attn: Venetia Lannon
· DOS Waste Prev. Reuse and Recycling
· 44 Beaver Street-8th floor
· New York NY 10004

Date Received : 09/11/2001
Date Reported : 10/11/2001
Lab ID Number : 5086.1

MINERALS ANALYSIS

Sample Identification: NML Day 53 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
Total Mineral Nutrients				
Total Nitrogen	%	2.523	1.320	26.4
Organic-Nitrogen	%	2.514	1.315	26.3
Phosphorus (P)	%	0.624	0.326	6.5
Potassium (K)	%	0.357	0.187	3.7
Sodium (Na)	%	0.568	0.297	5.9
Calcium (Ca)	%	3.174	1.660	33.2
Magnesium (Mg)	%	0.254	0.133	2.7
Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	85	44	0.1
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	6585	3444	6.89
Sulfate (SO ₄ -S)	ppm	1113	582	1.16

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Old Rome Road, P.O. Box 297
 Mount Vernon, ME 04352/USA
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Account: 556

Code: Ccvdyx-Project: 610

· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

Date Received : 09/11/2001

· 44 Beaver Street-8th floor

Date Reported : 10/11/2001

· New York NY 10004

Lab ID Number : 5086.1

METALS ANALYSIS

Sample Identification: NML Day 53 Bench-Scale, Sample B

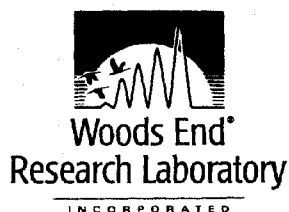
VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton <i>as is</i>
Copper (Cu)	mg·kg ⁻¹	135.1	70.7	0.1
Manganese (Mn)	mg·kg ⁻¹	1072.5	560.9	1.1
Iron (Fe)	mg·kg ⁻¹	7944.4	4154.9	8.3
Zinc (Zn)	mg·kg ⁻¹	349.6	182.8	0.4
Lead (Pb)	mg·kg ⁻¹	111.6	58.4	0.1
Chromium (Cr)	mg·kg ⁻¹	44.1	-	-
Cadmium (Cd)	mg·kg ⁻¹	4.4	-	-
Nickel (Ni)	mg·kg ⁻¹	54.8	28.7	0.1

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number< signifies *less than MLD* (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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NML Day 21
Sample A & Sample B



Certificate of Analysis

PCB's Method EPA 8082

Sample	5022.1	Analyte	Result	Units	PQL
Collect Date:	7/26/2001	PCB 1242	ND	mg/kg	0.2
Date Received:	7/27/2001	PCB 1254	ND	mg/kg	0.2
Lab Sample #	01X0872-01	PCB 1232	ND	mg/kg	0.2
Date Analyzed	8/16/2001	PCB 1260	ND	mg/kg	0.2
Date Extracted	8/2/2001	PCB 1248	ND	mg/kg	0.2
Surrogate(DCB) % Recovery	90 AR 30-150	PCB 1248	ND	mg/kg	0.2
g Sample Extracted	Percent Solids 47.8	PCB 1016	ND	mg/kg	0.2
Wt Basis	Dry wt Basis	PCB 1221	ND	mg/kg	0.2

Sample	5022.2	Analyte	Result	Units	PQL
Collect Date:	7/26/2001	PCB 1242	ND	mg/kg	0.2
Date Received:	7/27/2001	PCB 1254	ND	mg/kg	0.2
Lab Sample #	01X0872-02	PCB 1232	ND	mg/kg	0.2
Date Analyzed	8/16/2001	PCB 1260	ND	mg/kg	0.2
Date Extracted	8/2/2001	PCB 1248	ND	mg/kg	0.2
Surrogate(DCB) % Recovery	80 AR 30-150	PCB 1248	ND	mg/kg	0.2
g Sample Extracted	Percent Solids 41.8	PCB 1016	ND	mg/kg	0.2
Wt Basis	Dry wt Basis	PCB 1221	ND	mg/kg	0.2

Wayne D...
Laboratory Supervisor

8/30/01

PQL Practical Quantitation Limit
PCB Report

ND Not Detected (<PQL)
Page 1 of 1

Woods End Research Laboratory, Inc.
 20 Old Rome Road - Mt Vernon ME 04352

INERTS CHARACTERIZATION

Client:
 attn: Venetia Lannon
 DOS Waste Prev. Reuse and Recycling
 44 Beaver Street-8th floor
 New York NY 10004

Date: 7-Sep-01
 Project: 610
 Acct#: 556
 Initials: EE
 Ref: _____

Lab No: **5084.0** Description: **NML Final Off-Site Blend (<3/8")**

Weight In, g:	1068				
FRACTION: <u>Over 10mm</u>	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of over-10 mm, dry basis	
	Glass	0.0	0.0	0.00%	0.0%
	Plastic-Hard	0.1	0.1	0.01%	3.3%
	Plastic-Film	0.1	0.1	0.01%	3.3%
	Metal	0.0	0.0	0.00%	0.0%
	Textile, fibers	0.0	0.0	0.00%	0.0%
	Paper	0.0	0.0	0.00%	0.0%
	Wood	3.6	2.8	0.33%	93.4%
	Stones	0.0	0.0	0.00%	0.0%
	Bone, shell	0.0	0.0	0.00%	0.0%
	Compost	0.0	0.0	0.00%	0.0%
	TOTAL WEIGHT	3.8	3.0	0.4%	100.0%

Total Man-made Inerts Matter = 6.6%

Weight In, g:	1067.80				
FRACTION: <u>Under 10mm</u>	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of under-10 mm, dry basis	
	Glass	3.7	3.7	0.44%	0.4%
	Plastic-Hard	0.8	0.8	0.09%	0.1%
	Plastic-Film	0.3	0.3	0.04%	0.0%
	Metal	0.0	0.0	0.00%	0.0%
	Textile, fibers	0.4	0.3	0.04%	0.0%
	Paper	0.0	0.0	0.00%	0.0%
	Wood	19.8	15.6	1.84%	1.8%
	Stones	23.0	23.0	2.71%	2.7%
	Bone, shell	0.0	0.0	0.00%	0.0%
	Compost + Fines	1016.0	802.6	94.49%	94.8%
	TOTAL WEIGHT	1064.0	846.4	99.6%	100.0%

Total Man-made Inerts Matter = 0.6%

Printed: 10-19-01

Woods End Research Laboratory, Inc.

20 Old Rome Road - Mt Vernon ME 04352

INERTS CHARACTERIZATION

Client:

attn: Venetia Lannon

DOS Waste Prev. Reuse and Recycling

44 Beaver Street-8th floor

New York NY 10004

Date: 5-Oct-01

Project: 610

Acct# 556

Initials 

Ref:

Lab No: 5022.2 Description: NML Day 21, Sample B

Weight In, g: 785

FRACTION: <u>Over 10mm</u>	LAB SORT	percent of whole	relative percent
Glass	2.4	0.31%	24.5%
Plastic-Hard	1.1	0.14%	11.2%
Plastic-Film	0.2	0.03%	2.0%
Metal	0.0	0.00%	0.0%
Textile, fibers	0.8	0.10%	8.2%
Paper	1.5	0.19%	15.3%
Wood	0.0	0.00%	0.0%
Stones	3.8	0.48%	38.8%
Bone, shell	0.0	0.00%	0.0%
Compost	0.0	0.00%	0.0%
<u>TOTAL WEIGHT</u>	9.8	1.2%	100.0%

Weight In, g: 784.90

FRACTION: <u>Under 10mm</u>	LAB SORT	percent of whole	relative percent
Glass	4.4	0.56%	0.6%
Plastic-Hard	3.1	0.39%	0.4%
Plastic-Film	1.4	0.18%	0.2%
Metal	0.0	0.00%	0.0%
> 4mm Textile, fibers	5.2	0.66%	0.7%
Paper	27.0	3.44%	3.5%
Wood	2.1	0.27%	0.3%
Stones	1.9	0.24%	0.2%
Bone, shell	0.0	0.00%	0.0%
Compost + Fines	730.0	93.01%	94.2%
<u>TOTAL WEIGHT</u>	775.1	98.8%	100.0%
<u>GRAND TOTAL</u>		100.0%	

Notes * inerts > 4mm

Printed: 10-05-01

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· attn: Venetia Lannon
· DOS Waste Prev. Reuse and Recycling
· 44 Beaver Street-8th floor
· New York NY 10004

Code: x Project: 610

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.0

Quality Checked : *WD 6/27/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Primary Screen Unders (<1"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs.ft ³	-	31	842 lbs/yd ³
Solids	%	100.0	54.6	1092 lbs/ton
Moisture	%	0.0	45.4	109 gals/ton
est. water holding capacity	%	217	68	164 gals/ton
Inert and Oversize Matter	%	~	2.2	44.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.87	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	2655	1450	Medium
Organic Matter	%	69.8	38.1	763 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	4.2	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	39.4	39.4	High
Dewar Self-Heating	°C rise	~	19	Grade IV
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	2	Very Immature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Account: 556

Code: x-Project: 610

· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

· 44 Beaver Street-8th floor

· New York NY 10004

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.0

MINERALS ANALYSIS

Sample Identification: NQB Primary Screen Unders (<1"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
..... Total Mineral Nutrients				
Total Nitrogen	%	0.957	0.523	10.5
Organic-Nitrogen	%	0.893	0.488	9.8
Phosphorus (P)	%	0.140	0.076	1.5
Potassium (K)	%	0.232	0.127	2.5
Sodium (Na)	%	0.232	0.127	2.5
Calcium (Ca)	%	2.440	1.332	26.6
Magnesium (Mg)	%	0.180	0.098	2.0
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	637	348	0.7
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	4083	2229	4.46
Sulfate (SO ₄ -S)	ppm	3728	2036	4.07

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Account: 556

Code: x-Project: 610

attn: Venetia Lannon

DOS Waste Prev. Reuse and Recycling

44 Beaver Street-8th floor

New York NY 10004

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.0

METALS ANALYSIS

Sample Identification: NQB Primary Screen Unders (<1"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	65.2	35.6	<0.1
Manganese (Mn)	mg·kg ⁻¹	160.0	87.4	0.2
Iron (Fe)	mg·kg ⁻¹	5440.0	2970.2	5.9
Zinc (Zn)	mg·kg ⁻¹	404.0	220.6	0.4
Lead (Pb)	mg·kg ⁻¹	90.0	-	-
Chromium (Cr)	mg·kg ⁻¹	31.6	-	-
Cadmium (Cd)	mg·kg ⁻¹	2.0	-	-
Nickel (Ni)	mg·kg ⁻¹	24.0	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Account: 556

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 · 44 Beaver Street-8th floor
 · New York NY 10004

Code: x Project: 610

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.1

Quality Checked : *WD 6/27/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Primary Screen Unders (<1"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	33	893 lbs/yd ³
Solids	%	100.0	53.2	1064 lbs/ton
Moisture	%	0.0	46.8	112 gals/ton
est. water holding capacity	%	224	69	166 gals/ton
Inert and Oversize Matter	%	~	2.8	56.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.39	Med-Ideal
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	3666	1950	Medium
Organic Matter	%	72.2	38.4	769 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	5.2	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	44.9	44.9	High
Dewar Self-Heating	°C rise	~	6	Grade V
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	3	Immature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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· 44 Beaver Street-8th floor
· New York NY 10004

Date Received : 05/16/2001
Date Reported : 06/27/2001
Lab ID Number : 4953.1

MINERALS ANALYSIS

Sample Identification: NQB Primary Screen Unders (<1"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
..... Total Mineral Nutrients				
Total Nitrogen	%	0.868	0.462	9.2
Organic-Nitrogen	%	0.794	0.422	8.4
Phosphorus (P)	%	0.124	0.066	1.3
Potassium (K)	%	0.256	0.136	2.7
Sodium (Na)	%	0.240	0.128	2.6
Calcium (Ca)	%	2.444	1.300	26.0
Magnesium (Mg)	%	0.192	0.102	2.0
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	738	393	0.8
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	4063	2162	4.32
Sulfate (SO ₄ -S)	ppm	3744	1992	3.98

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Account: 556

Code: x-Project: 610

· attn: Venetia Lannon
· DOS Waste Prev. Reuse and Recycling
· 44 Beaver Street-8th floor
· New York NY 10004

Date Received : 05/16/2001
Date Reported : 06/27/2001
Lab ID Number : 4953.1

METALS ANALYSIS

Sample Identification: NQB Primary Screen Unders (<1"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	76.0	40.4	<0.1
Manganese (Mn)	mg·kg ⁻¹	164.0	87.2	0.2
Iron (Fe)	mg·kg ⁻¹	5840.0	3106.9	6.2
Zinc (Zn)	mg·kg ⁻¹	364.0	193.6	0.4
Lead (Pb)	mg·kg ⁻¹	114.0	60.6	0.1
Chromium (Cr)	mg·kg ⁻¹	30.8	-	-
Cadmium (Cd)	mg·kg ⁻¹	2.0	-	-
Nickel (Ni)	mg·kg ⁻¹	27.6	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Code: x Project: 610

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.2

Quality Checked : *WD 6/27/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Day 7, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	26	691 lbs/yd ³
Solids	%	100.0	66.4	1328 lbs/ton
Moisture	%	0.0	33.6	81 gals/ton
est. water holding capacity	%	212	68	163 gals/ton
Inert and Oversize Matter	%	~	3.7	74.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.55	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	10091	6700	High
Organic Matter	%	67.9	45.1	901 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	4.9	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	38.9	38.9	High
Dewar Self-Heating	°C rise	~	37	Grade II
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	0.943	0.626	12.5

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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 · New York NY 10004

Code: x Project: 610

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.3

Quality Checked : *WD 6/27/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Day 7, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	26	708 lbs/yd ³
Solids	%	100.0	68.5	1370 lbs/ton
Moisture	%	0.0	31.5	76 gals/ton
est. water holding capacity	%	208	68	162 gals/ton
Inert and Oversize Matter	%	~	4.1	82.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.76	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	9847	6745	High
Organic Matter	%	66.5	45.5	911 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	5.0	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	34.5	34.5	Med-High
Dewar Self-Heating	°C rise	~	46	Grade I
Solvita CO ₂ Rate	(see chart)	~	4	Med-High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	4	Med-Active
..... Total Mineral Nutrients.....				
Total Nitrogen	%	1.040	0.712	14.2

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: x Project: 610

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.4

Quality Checked : *WD 6/27/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Day 14, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	24	640 lbs/yd ³
Solids	%	100.0	66.4	1328 lbs/ton
Moisture	%	0.0	33.6	81 gals/ton
est. water holding capacity	%	201	67	160 gals/ton
Inert and Oversize Matter	%	~	1.8	36.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.58	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	5947	3949	M High
Organic Matter	%	64.0	42.5	849 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	3.8	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	33.2	33.2	Med-High
Dewar Self-Heating	°C rise	~	40	Grade II
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	2	Very Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.041	0.691	13.8

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: x Project: 610

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.5

Quality Checked : *WD 6/27/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Day 14, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	25	674 lbs/yd ³
Solids	%	100.0	67.3	1346 lbs/ton
Moisture	%	0.0	32.7	78 gals/ton
est. water holding capacity	%	197	66	159 gals/ton
Inert and Oversize Matter	%	~	2.8	56.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.94	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	7804	5252	High
Organic Matter	%	62.4	42.0	840 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	5.2	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	28.0	28.0	Med-High
Dewar Self-Heating	°C rise	~	47	Grade I
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients.....				
Total Nitrogen	%	1.202	0.809	16.2

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: x Project: 610

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.6

Quality Checked : WD 6/27/01

COMPOSITION ANALYSIS

Sample Identification: NQB Day 21, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	24	657 lbs/yd ³
Solids	%	100.0	73.6	1472 lbs/ton
Moisture	%	0.0	26.4	63 gals/ton
est. water holding capacity	%	206	67	161 gals/ton
Inert and Oversize Matter	%	~	3.5	70.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.47	Med-Ideal
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	3331	2452	Medium
Organic Matter	%	65.7	48.4	967 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	5.6	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	36.4	36.4	High
Dewar Self-Heating	°C rise	~	32	Grade II
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients.....				
Total Nitrogen	%	0.975	0.718	14.4

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: x Project: 610

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.7

Quality Checked : WJ 6/27/01

COMPOSITION ANALYSIS

Sample Identification: NQB Day 21, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	26	691 lbs/yd ³
Solids	%	100.0	73.0	1460 lbs/ton
Moisture	%	0.0	27.0	65 gals/ton
est. water holding capacity	%	198	66	159 gals/ton
Inert and Oversize Matter	%	~	4.6	92.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.84	Med-High
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	5414	3952	M High
Organic Matter	%	62.8	45.8	917 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	6.3	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	30.8	30.8	Med-High
Dewar Self-Heating	°C rise	~	41	Grade I
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.101	0.804	16.1

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: xS Project: 610

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.8

Quality Checked : *WD 7/17/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Final Screen Unders (<5mm), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs·ft ³	-	27	741 lbs/yd ³
Solids	%	100.0	79.2	1584 lbs/ton
Moisture	%	0.0	20.8	50 gals/ton
est. water holding capacity	%	213	68	163 gals/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.95	Med-High
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	821	650	M Low
Organic Matter	%	68.3	54.1	1082 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	6.3	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	33.5	33.5	Med-High
Dewar Self-Heating	°C rise	~	26	Grade III
Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	88	No Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	33	Low
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	3	Immature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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 · New York NY 10004

Date Received : 05/16/2001
 Date Reported : 06/27/2001
 Lab ID Number : 4953.8

MINERALS ANALYSIS

Sample Identification: NQB Final Screen Unders (<5mm), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
..... Total Mineral Nutrients.....				
Total Nitrogen	%	1.101	0.872	17.4
Organic-Nitrogen	%	1.081	0.856	17.1
Phosphorus (P)	%	0.216	0.171	3.4
Potassium (K)	%	0.392	0.310	6.2
Sodium (Na)	%	0.300	0.238	4.8
Calcium (Ca)	%	3.500	2.772	55.4
Magnesium (Mg)	%	0.220	0.174	3.5
..... Soluble Nutrients.....				
Ammonium-N (NH ₄ -N)	ppm	195	154	0.3
Nitrate-N	ppm	<2	< 2	nd
Nitrite-N	ppm	<2	< 2	nd
Chloride (Cl)	ppm	4479	3548	7.10
Sulfate (SO ₄ -S)	ppm	5496	4353	8.71

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· New York NY 10004

Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.8

METALS ANALYSIS

Sample Identification: NQB Final Screen Unders (<5mm), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	84.4	66.8	0.1
Manganese (Mn)	mg·kg ⁻¹	288.0	228.1	0.5
Iron (Fe)	mg·kg ⁻¹	8920.0	7064.6	14.1
Zinc (Zn)	mg·kg ⁻¹	524.0	415.0	0.8
Lead (Pb)	mg·kg ⁻¹	193.6	153.3	0.3
Chromium (Cr)	mg·kg ⁻¹	274.0	217.0	0.4
Cadmium (Cd)	mg·kg ⁻¹	2.8	-	-
Nickel (Ni)	mg·kg ⁻¹	38.0	30.1	0.1
Arsenic (As)	mg·kg ⁻¹	9.5	-	-
Mercury (Hg)	mg·kg ⁻¹	0.57	-	-
Molybdenum (Mo)	mg·kg ⁻¹	13	-	-
Selenium (Se)	mg·kg ⁻¹	< 5.3	-	-

BACTERIOLOGIC ANALYSIS.....

Fecal coliform EPA503 MPN per g

380

-

Total *Salmonella* EPA503 .. MPN per 4g

< 1.0

-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Date Received : 05/16/2001

· DOS Waste Prev. Reuse and Recycling

Date Reported : 06/27/2001

· 44 Beaver Street-8th floor

Lab ID Number : 4953.9

· New York NY 10004

Quality Checked: WOD 6/27/01

COMPOSITION ANALYSIS

Sample Identification: NQB Final Screen Unders (<5mm), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	26	691 lbs/yd ³
Solids	%	100.0	77.3	1546 lbs/ton
Moisture	%	0.0	22.7	54 gals/ton
est. water holding capacity	%	223	69	166 gals/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.99	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	582	450	M Low
Organic Matter	%	71.9	55.6	1112 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	5.8	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	33.4	33.4	Med-High
Dewar Self-Heating	°C rise	~	27	Grade III
..... Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	95	No Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	36	Low
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	3	Immature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Date Received : 05/16/2001

44 Beaver Street-8th floor

Date Reported : 06/27/2001

New York NY 10004

Lab ID Number : 4953.9

MINERALS ANALYSIS

Sample Identification: NQB Final Screen Unders (<5mm), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
..... Total Mineral Nutrients				
Total Nitrogen	%	1.164	0.900	18.0
Organic-Nitrogen	%	1.144	0.884	17.7
Phosphorus (P)	%	0.192	0.148	3.0
Potassium (K)	%	0.400	0.309	6.2
Sodium (Na)	%	0.304	0.235	4.7
Calcium (Ca)	%	3.400	2.628	52.6
Magnesium (Mg)	%	0.226	0.175	3.5
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	201	155	0.3
Nitrate-N	ppm	<2	< 2	nd
Nitrite-N	ppm	<2	< 2	nd
Chloride (Cl)	ppm	4694	3629	7.26
Sulfate (SO ₄ -S)	ppm	5854	4525	9.05

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Date Received : 05/16/2001

Date Reported : 06/27/2001

Lab ID Number : 4953.9

METALS ANALYSIS

Sample Identification: NQB Final Screen Unders (<5mm), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	90.4	69.9	0.1
Manganese (Mn)	mg·kg ⁻¹	280.0	216.4	0.4
Iron (Fe)	mg·kg ⁻¹	7400.0	5720.2	11.4
Zinc (Zn)	mg·kg ⁻¹	440.0	340.1	0.7
Lead (Pb)	mg·kg ⁻¹	195.6	151.2	0.3
Chromium (Cr)	mg·kg ⁻¹	40.0	-	-
Cadmium (Cd)	mg·kg ⁻¹	2.8	-	-
Nickel (Ni)	mg·kg ⁻¹	36.0	27.8	0.1
Arsenic (As)	mg·kg ⁻¹	9.5	-	-
Mercury (Hg)	mg·kg ⁻¹	0.59	-	-
Molybdenum (Mo)	mg·kg ⁻¹	11	-	-
Selenium (Se)	mg·kg ⁻¹	< 5.6	-	-
..... BACTERIOLOGIC ANALYSIS				
Fecal coliform EPA503	MPN per g	39	-	-
Total <i>Salmonella</i> EPA503 ..	MPN per 4g	< 1.1	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Code: sv Project: 610

Date Received : 06/12/2001

Date Reported : 07/17/2001

Lab ID Number : 4984.0

Quality Checked : *WD 7/17/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Day 7 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	51.2	1024 lbs/ton
Moisture	%	0.0	48.8	117 gals/ton
est. water holding capacity	%	208	68	162 gals/ton
Inert and Oversize Matter	%	~	3.5	70.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.77	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	1269	650	M Low
Organic Matter	%	66.6	34.1	682 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	2.7	Med-Low
Carbon:Nitrogen (C:N) Ratio	w:w	35.7	35.7	High
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients.....				
Total Nitrogen	%	1.008	0.516	10.3

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected
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Account: 556

· attn: Venetia Lannon
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 · 44 Beaver Street-8th floor
 · New York NY 10004

Code: sv Project: 610

Date Received : 06/12/2001

Date Reported : 07/17/2001

Lab ID Number : 4984.1

Quality Checked : *wp 7/17/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Day 7 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	53.0	1060 lbs/ton
Moisture	%	0.0	47.0	113 gals/ton
est. water holding capacity	%	210	68	162 gals/ton
Inert and Oversize Matter	%	~	3.8	76.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.71	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	1131	599	M Low
Organic Matter	%	67.3	35.7	714 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	3.4	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	34.2	34.2	Med-High
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.064	0.564	11.3

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: sv Project: 610
Date Received : 06/04/2001
Date Reported : 07/10/2001
Lab ID Number : 4971.0
Quality Checked : *WD 7/10/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Day 14 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	52.8	1056 lbs/ton
Moisture	%	0.0	47.2	113 gals/ton
est. water holding capacity	%	213	68	163 gals/ton
Inert and Oversize Matter	%	~	17.4	348.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	8.07	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	3981	2102	Medium
Organic Matter	%	68.2	36.0	721 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	3.3	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	35.0	35.0	Med-High
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.052	0.555	11.1

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected
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Code: sv Project: 610

Date Received : 06/04/2001

Date Reported : 07/10/2001

Lab ID Number : 4971.1

Quality Checked : *WD 7/10/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Day 14 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	55.5	1110 lbs/ton
Moisture	%	0.0	44.5	107 gals/ton
est. water holding capacity	%	208	68	162 gals/ton
Inert and Oversize Matter	%	~	15.0	300.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.97	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	5315	2950	M High
Organic Matter	%	66.5	36.9	738 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	4.0	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	31.9	31.9	Med-High
Solvita CO ₂ Rate	(see chart)	~	3	High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	3	Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	1.126	0.625	12.5

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: sv Project: 610

Date Received : 06/12/2001

Date Reported : 07/17/2001

Lab ID Number : 4984.2

Quality Checked : WD 8/3/01

COMPOSITION ANALYSIS

Sample Identification: NQB Day 21 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	51.2	1024 lbs/ton
Moisture	%	0.0	48.8	117 gals/ton
est. water holding capacity	%	190	66	157 gals/ton
Inert and Oversize Matter	%	~	4.1	82.0 lbs/ton
pH (paste; H ₂ O)	-logH ⁺	~	7.89	Med-High
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	684	350	M Low
Organic Matter	%	60.2	30.8	616 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	3.7	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	26.6	26.6	Med-High
..... Seedling Response Assay, Percent of Control.....				
<i>Lepidium sativum</i> Germination	%	~	85	Slight Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	40	Low
Solvita CO ₂ Rate	(see chart)	~	5	Medium
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	5	Late-Active
..... Total Mineral Nutrients				
Total Nitrogen	%	1.221	0.625	12.5

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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 · New York NY 10004

Code: sv Project: 610

Date Received : 06/12/2001

Date Reported : 07/17/2001

Lab ID Number : 4984.3

Quality Checked : WD 8/3/01

COMPOSITION ANALYSIS

Sample Identification: NQB Day 21 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	52.5	1050 lbs/ton
Moisture	%	0.0	47.5	114 gals/ton
est. water holding capacity	%	192	66	158 gals/ton
Inert and Oversize Matter	%	~	4.1	82.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.88	MedHigh
Free Carbonates (CO ₃)	Rating	~	3	V High
Volatile Organic Acids	ppm	667	350	M Low
Organic Matter	%	60.9	32.0	639 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	3.5	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	53.8	53.8	High
..... Seedling Response Assay, Percent of Control.....				
<i>Lepidium sativum</i> Germination	%	~	68	Phytotoxic
<i>Lepidium sativum</i> Weight	%	~	34	Low
Solvita CO ₂ Rate	(see chart)	~	5	Medium
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	5	Late-Active
..... Total Mineral Nutrients.....				
Total Nitrogen	%	0.611	0.321	6.4

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: Ccyvdx Project: 610
Date Received : 07/10/2001
Date Reported : 08/07/2001
Lab ID Number : 5009.0
Quality Checked : *WD 8/7/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Day 50 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	35	944 lbs/yd ³
Solids	%	100.0	50.5	1010 lbs/ton
Moisture	%	0.0	49.5	119 gals/ton
est. water holding capacity	%	194	66	158 gals/ton
Inert and Oversize Matter	%	~	2.3	46.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.79	MedHigh
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	396	200	V Low
Organic Matter	%	61.6	31.1	622 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	4.9	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	24.9	24.9	Med-High
Respiration Rate/day ...	C% of Total-C	0.49	0.49	-
Carbon loss per day ...	% of total weight	0.16	0.08	1.6 lbs/ton
Dewar Self-Heating	°C rise	~	6	Grade V
Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	24	Ex. Phytotoxic
<i>Lepidium sativum</i> Weight	%	~	47	Low
Solvita CO ₂ Rate	(see chart)	~	6	Med-Low
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	6	Active-Curing

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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· 44 Beaver Street-8th floor

· New York NY 10004

Date Received : 07/10/2001

Date Reported : 08/07/2001

Lab ID Number : 5009.0

MINERALS ANALYSIS

Sample Identification: NQB Day 50 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
..... Total Mineral Nutrients				
Total Nitrogen	%	1.336	0.675	13.5
Organic-Nitrogen	%	1.334	0.674	13.5
Phosphorus (P)	%	0.176	0.089	1.8
Potassium (K)	%	0.360	0.182	3.6
Sodium (Na)	%	0.412	0.208	4.2
Calcium (Ca)	%	3.120	1.576	31.5
Magnesium (Mg)	%	0.304	0.154	3.1
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	13	7	0.0
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	5292	2672	5.34
Sulfate (SO ₄ -S)	ppm	<4	< 2	

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· 44 Beaver Street-8th floor

· New York NY 10004

Date Received : 07/10/2001

Date Reported : 08/07/2001

Lab ID Number : 5009.0

METALS ANALYSIS

Sample Identification: NQB Day 50 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	87.6	44.2	<0.1
Manganese (Mn)	mg·kg ⁻¹	244.0	123.2	0.2
Iron (Fe)	mg·kg ⁻¹	17200.0	8686.0	17.4
Zinc (Zn)	mg·kg ⁻¹	476.0	240.4	0.5
Lead (Pb)	mg·kg ⁻¹	104.0	52.5	0.1
Chromium (Cr)	mg·kg ⁻¹	44.0	-	-
Cadmium (Cd)	mg·kg ⁻¹	3.2	-	-
Nickel (Ni)	mg·kg ⁻¹	36.4	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Code: Ccyvdx Project: 610

Date Received : 07/10/2001

Date Reported : 08/07/2001

Lab ID Number : 5009.1

Quality Checked : *WD 8/7/01*

COMPOSITION ANALYSIS

Sample Identification: NQB Day 50 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	35	944 lbs/yd ³
Solids	%	100.0	48.3	966 lbs/ton
Moisture	%	0.0	51.7	124 gals/ton
est. water holding capacity	%	192	66	158 gals/ton
Inert and Oversize Matter	%	~	1.2	24.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.81	Med-High
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	621	300	M Low
Organic Matter	%	60.6	29.3	585 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	4.3	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	24.5	24.5	Med-High
Respiration Rate/day ...	C% of Total-C	0.55	0.55	-
Carbon loss per day ...	% of total weight	0.18	0.09	1.7 lbs/ton
..... Seedling Response Assay, Percent of Control.....				
<i>Lepidium sativum</i> Germination	%	~	32	Very Phytotoxic
<i>Lepidium sativum</i> Weight	%	~	49	Low
Solvita CO ₂ Rate	(see chart)	~	6	Med-Low
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	6	Active-Curing

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: Ccyvdx-Project: 610

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Date Received : 07/10/2001

· DOS Waste Prev. Reuse and Recycling

Date Reported : 08/07/2001

· 44 Beaver Street-8th floor

Lab ID Number : 5009.1

· New York NY 10004

MINERALS ANALYSIS

Sample Identification: NQB Day 50 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
..... Total Mineral Nutrients				
Total Nitrogen	%	1.337	0.646	12.9
Organic-Nitrogen	%	1.336	0.645	12.9
Phosphorus (P)	%	0.176	0.085	1.7
Potassium (K)	%	0.372	0.180	3.6
Sodium (Na)	%	0.400	0.193	3.9
Calcium (Ca)	%	3.276	1.582	31.6
Magnesium (Mg)	%	0.316	0.153	3.1
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	< 2	< 1	-
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	5587	2698	5.40
Sulfate (SO ₄ -S)	ppm	3599	1738	3.48

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· New York NY 10004

Date Received : 07/10/2001
Date Reported : 08/07/2001
Lab ID Number : 5009.1

METALS ANALYSIS

Sample Identification: NQB Day 50 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	90.0	43.5	<0.1
Manganese (Mn)	mg·kg ⁻¹	220.0	106.3	0.2
Iron (Fe)	mg·kg ⁻¹	8400.0	4057.2	8.1
Zinc (Zn)	mg·kg ⁻¹	436.0	210.6	0.4
Lead (Pb)	mg·kg ⁻¹	105.6	51.0	0.1
Chromium (Cr)	mg·kg ⁻¹	40.0	-	-
Cadmium (Cd)	mg·kg ⁻¹	4.8	-	-
Nickel (Ni)	mg·kg ⁻¹	34.4	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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NQB Final Screen Unders (<5mm)

Sample A



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email: info@woodsendlab.org

Certificate of Analysis
EPA Method 8081A/8082 - Organochlorine Pesticides/PCB's

Sample Name: 4953.8
Sample Location: COMPOST
Sampling Date: 5/21/2001
Sampling Time: 14:00
Date Received: 6/5/2001

Lab #: 01X0541-01
Matrix: SOIL
Analyst: HY
Extract Date: 5/24/2001
Analysis Date: 5/29/2001

Analyte	Result	Units	PQL
alpha-BHC:	ND	mg/Kg	0.02
gamma-BHC (Lindane):	ND	mg/Kg	0.02
Heptachlor:	ND	mg/Kg	0.02
Aldrin:	ND	mg/Kg	0.02
beta-BHC:	ND	mg/Kg	0.02
delta-BHC:	ND	mg/Kg	0.02
Heptachlor Epoxide:	ND	mg/Kg	0.02
Endosulfan I:	ND	mg/Kg	0.02
4,4'-DDE:	ND	mg/Kg	0.02
Dieldrin:	ND	mg/Kg	0.02
Endrin:	ND	mg/Kg	0.02
Endosulfan II:	ND	mg/Kg	0.02
4,4'-DDD:	ND	mg/Kg	0.02
4,4'-DDT:	ND	mg/Kg	0.02
Endrin Aldehyde:	ND	mg/Kg	0.02
Endosulfan Sulfate:	ND	mg/Kg	0.02
Methoxychlor:	ND	mg/Kg	0.10
Endrin Ketone:	ND	mg/Kg	0.02
Chlordane:	ND	mg/Kg	0.2
Toxaphene:	ND	mg/Kg	0.2
Arochlor 1016:	ND	mg/Kg	0.2
Arochlor 1221:	ND	mg/Kg	0.2
Arochlor 1232:	ND	mg/Kg	0.2
Arochlor 1242:	ND	mg/Kg	0.2
Arochlor 1248:	ND	mg/Kg	0.2
Arochlor 1254:	ND	mg/Kg	0.2
Arochlor 1260:	ND	mg/Kg	0.2

Surrogate Standard	% Recovery
TCX %R	36.2

ND Not Detected PQL Practical Quantitation Limit

EPA 8081 Report Page 1 of 2

Appendix H: Data from the Four-Facility Survey

NQB Final Screen Unders (<5mm)

Sample B



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Certificate of Analysis

EPA Method 8081A/8082 - Organochlorine Pesticides/PCB's

Sample Name: 4953.9
Sample Location: COMPOST
Sampling Date: 5/21/2001
Sampling Time: 14:00
Date Received: 6/5/2001

Lab #: 01X0541-02
Matrix: SOIL
Analyst: HY
Extract Date: 5/24/2001
Analysis Date: 5/29/2001

Analyte	Result	Units	PQL
alpha-BHC:	ND	mg/Kg	0.02
gamma-BHC (Lindane):	ND	mg/Kg	0.02
Heptachlor:	ND	mg/Kg	0.02
Aldrin:	ND	mg/Kg	0.02
beta-BHC:	ND	mg/Kg	0.02
delta-BHC:	ND	mg/Kg	0.02
Heptachlor Epoxide:	ND	mg/Kg	0.02
Endosulfan I:	ND	mg/Kg	0.02
4,4'-DDE:	ND	mg/Kg	0.02
Dieldrin:	ND	mg/Kg	0.02
Endrin:	ND	mg/Kg	0.02
Endosulfan II:	ND	mg/Kg	0.02
4,4'-DDD:	ND	mg/Kg	0.02
4,4'-DDT:	ND	mg/Kg	0.02
Endrin Aldehyde:	ND	mg/Kg	0.02
Endosulfan Sulfate:	ND	mg/Kg	0.02
Methoxychlor:	ND	mg/Kg	0.10
Endrin Ketone:	ND	mg/Kg	0.02
Chlordane:	ND	mg/Kg	0.2
Toxaphene:	ND	mg/Kg	0.2
Arochlor 1016:	ND	mg/Kg	0.2
Arochlor 1221:	ND	mg/Kg	0.2
Arochlor 1232:	ND	mg/Kg	0.2
Arochlor 1242:	ND	mg/Kg	0.2
Arochlor 1248:	ND	mg/Kg	0.2
Arochlor 1254:	ND	mg/Kg	0.2
Arochlor 1260:	ND	mg/Kg	0.2

Surrogate Standard	% Recovery
TCX %R	35.1

Lab Supervisor: 

Report Date:

07-Jun-01

ND Not Detected PQL Practical Quantitation Limit

EPA 8081 Report Page 2 of 2

Woods End Research Laboratory, Inc.
20 Old Rome Road - Mt Vernon ME 04352

INERTS CHARACTERIZATION

Client:
attn: Venetia Lannon
DOS Waste Prev. Reuse and Recycling
44 Beaver Street-8th floor
New York NY 10004

Date: 16-May-01
Project: 610
Acct#: 556
Initials: EE
Ref:

Lab No: 4953.8 Description: NQB facility final < 5 mm, A

Weight In, g:	182				
FRACTION: Over 10mm	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of over-10 mm, dry basis	
Glass	0.0	0.0	0.00%	0.0%	
Plastic-Hard	0.0	0.0	0.00%	0.0%	
Plastic-Film	0.0	0.0	0.00%	0.0%	
Metal	0.0	0.0	0.00%	0.0%	
Textile, fibers	0.0	0.0	0.00%	0.0%	
Paper	0.0	0.0	0.00%	0.0%	
Wood	0.0	0.0	0.00%	0.0%	
Stones	0.0	0.0	0.00%	0.0%	
Bone, shell	0.0	0.0	0.00%	0.0%	
Compost	0.0	0.0	0.00%	0.0%	
TOTAL WEIGHT	0.0	0.0	0.0%	0.0%	

Total Man-made Inerts Matter = 0.0%

Weight In, g:	181.70				
FRACTION: Under 10mm	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of under-10 mm, dry basis	
Glass	0.0	0.0	0.00%	0.0%	
Plastic-Hard	0.2	0.2	0.14%	0.1%	
Plastic-Film	0.0	0.0	0.00%	0.0%	
Metal	0.0	0.0	0.00%	0.0%	
Textile, fibers	0.0	0.0	0.00%	0.0%	
Paper	0.0	0.0	0.00%	0.0%	
Wood	0.0	0.0	0.00%	0.0%	
Stones	0.5	0.5	0.35%	0.3%	
Bone, shell	0.0	0.0	0.00%	0.0%	
Compost + Fines	181.0	143.0	99.51%	99.5%	
TOTAL WEIGHT	181.70	143.7	100.0%	100.0%	

Total Man-made Inerts Matter = 0.1%

Notes * inerts > 4mm

Printed: 10-19-01

Woods End Research Laboratory, Inc.
20 Old Rome Road - Mt Vernon ME 04352

INERTS CHARACTERIZATION

Client:

attn: Venetia Lannon
 DOS Waste Prev. Reuse and Recycling
 44 Beaver Street-8th floor
 New York NY 10004

Date: 16-May-01

Project: 610

Acct#: 556

Initials: EE

Ref:

Lab No: 4953.9 Description: NQB facility final < 5 mm, B

237	Weight In, g:	237				
	FRACTION: Over 10mm	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of over-10 mm, dry basis	
		Glass	0.0	0.0	0.00%	0.0%
		Plastic-Hard	0.0	0.0	0.00%	0.0%
		Plastic-Film	0.0	0.0	0.00%	0.0%
		Metal	0.0	0.0	0.00%	0.0%
		Textile, fibers	0.0	0.0	0.00%	0.0%
		Paper	0.0	0.0	0.00%	0.0%
		Wood	0.0	0.0	0.00%	0.0%
		Stones	0.0	0.0	0.00%	0.0%
		Bone, shell	0.0	0.0	0.00%	0.0%
		Compost	0.0	0.0	0.00%	0.0%
	TOTAL WEIGHT		0.0	0.0	0.0%	0.0%

Total Man-made Inerts Matter = 0.0%

	Weight In, g:	236.70				
	FRACTION: Under 10mm	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of under-10 mm, dry basis	
		Glass	0.3	0.3	0.16%	0.2%
		Plastic-Hard	0.1	0.1	0.05%	0.1%
		Plastic-Film	0.1	0.1	0.05%	0.1%
		Metal	0.0	0.0	0.00%	0.0%
		Textile, fibers	0.0	0.0	0.00%	0.0%
		Paper	0.0	0.0	0.00%	0.0%
		Wood	0.0	0.0	0.00%	0.0%
		Stones	1.2	1.2	0.64%	0.6%
		Bone, shell	0.0	0.0	0.00%	0.0%
		Compost + Fines	235.0	185.7	99.09%	99.1%
	TOTAL WEIGHT		236.70	187.4	100.0%	100.0%

Total Man-made Inerts Matter = 0.3%

GRAND TOTAL 100.0%

Notes * inerts > 4mm

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20 Old Rome Road - Mt Vernon ME 04352

INERTS CHARACTERIZATION

Client:
attn: Venetia Lannon
DOS Waste Prev. Reuse and Recycling
44 Beaver Street-8th floor
New York NY 10004

Date: 16-May-01
Project: 610
Acct#: 556
Initials: CE
Ref:

Lab No: 4954.0 Description: NQB Final Facility Overs (>5mm), Sample A

Weight In, g: 174

FRACTION: <u>Over 10mm</u>	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of over-10 mm, dry basis
Glass	1.0	1.0	0.71%	6.6%
Plastic-Hard	0.2	0.2	0.14%	1.3%
Plastic-Film	0.6	0.6	0.43%	4.0%
Metal	0.0	0.0	0.00%	0.0%
Textile, fibers	7.2	5.7	4.03%	37.5%
Paper	8.0	6.3	4.48%	41.7%
Wood	1.7	1.3	0.95%	8.9%
Stones	0.0	0.0	0.00%	0.0%
Bone, shell	0.0	0.0	0.00%	0.0%
Compost	0.0	0.0	0.00%	0.0%
TOTAL WEIGHT	18.7	15.2	10.7%	100.0%

Total Man-made Inerts Matter = 49.4%

Weight In, g: 164.48

FRACTION: <u>Under 10mm</u>	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of under-10 mm, dry basis
Glass	0.7	0.7	0.53%	0.6%
Plastic-Hard	4.5	4.5	3.41%	3.8%
Plastic-Film	3.2	3.2	2.43%	2.7%
Metal	0.0	0.0	0.00%	0.0%
Textile, fibers	12.0	9.5	7.19%	8.1%
Paper	55.1	43.5	33.00%	37.0%
Wood	9.1	7.2	5.45%	6.1%
Stones	0.0	0.0	0.00%	0.0%
Bone, shell	0.0	0.0	0.00%	0.0%
Compost + Fines	62.2	49.1	37.25%	41.7%
TOTAL WEIGHT	146.80	117.7	89.3%	100.0%

> 4mm

Total Man-made Inerts Matter = 15.2%

Printed: 10-19-01

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INERTS CHARACTERIZATION

Client:
 attn: Venetia Lannon
 DOS Waste Prev. Reuse and Recycling
 44 Beaver Street-8th floor
 New York NY 10004

Date: 16-May-01
 Project: 610
 Acct#: 556

Initials: EE
 Ref: _____

Lab No: 4954.1 Description: NQB Final Facility Overs (>5mm), Sample B

Weight In, g:	161				
FRACTION: <u>Over 10mm</u>	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of over-10 mm, dry basis	
	Glass	0.0	0.0	0.00%	0.0%
	Plastic-Hard	1.4	1.4	1.07%	8.2%
	Plastic-Film	1.0	1.0	0.76%	5.8%
	Metal	0.0	0.0	0.00%	0.0%
	Textile, fibers	8.6	6.8	5.18%	39.6%
	Paper	6.8	5.4	4.10%	31.3%
	Wood	3.3	2.6	1.99%	15.2%
	Stones	0.0	0.0	0.00%	0.0%
	Bone, shell	0.0	0.0	0.00%	0.0%
	Compost	0.0	0.0	0.00%	0.0%
	TOTAL WEIGHT	21.1	17.2	13.1%	100.0%

Total Man-made Inerts Matter = 53.5%

Weight In, g:	153.86				
FRACTION: <u>Under 10mm</u>	LAB SORT	dry weight, grams	percent of whole, dry basis	percent of under-10 mm, dry basis	
	Glass	0.9	0.9	0.73%	0.8%
	Plastic-Hard	1.4	1.4	1.14%	1.3%
	Plastic-Film	3.0	3.0	2.44%	2.8%
	Metal	0.0	0.0	0.00%	0.0%
	Textile, fibers	16.5	13.0	10.61%	12.2%
	Paper	54.0	42.7	34.73%	40.0%
	Wood	12.0	9.5	7.72%	8.9%
	Stones	0.0	0.0	0.00%	0.0%
	Bone, shell	0.8	0.6	0.51%	0.6%
	Compost + Fines	45.1	35.6	29.01%	33.4%
	TOTAL WEIGHT	133.70	106.7	86.9%	100.0%

Total Man-made Inerts Matter = 17.2%

GRAND TOTAL 100.0%

Printed: 10-19-01

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Account: 556

attn: Venetia Lannon
 DOS Waste Prev. Reuse and Recycling
 44 Beaver Street-8th floor
 New York NY 10004

Code: Ccyvdx Project: 610

Date Received : 06/06/2001

Date Reported : 07/17/2001

Lab ID Number : 4973.0

Quality Checked : WJ 7/17/01

COMPOSITION ANALYSIS

Sample Identification: NRC Primary Screen Unders (<1 3/4"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	30	809 lbs/yd ³
Solids	%	100.0	51.1	1022 lbs/ton
Moisture	%	0.0	48.9	117 gals/ton
est. water holding capacity	%	236	70	168 gals/ton
Inert and Oversize Matter	%	~	25.7	514.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.00	Med Low
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	11942	6102	High
Organic Matter	%	76.7	39.2	784 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	2.9	Med-Low
Carbon:Nitrogen (C:N) Ratio	w:w	51.0	51.0	High
Respiration Rate/day ...	C% of Total-C	1.44	1.44	-
Carbon loss per day ...	% of total weight	0.60	0.31	6.1 lbs/ton
Dewar Self-Heating	°C rise	~	43	Grade I
..... Seedling Response Assay, Percent of Control.....				
<i>Lepidium sativum</i> Germination	%	~	33	Very Phytotoxic
<i>Lepidium sativum</i> Weight	%	~	30	V. Poor
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	2	Very Immature

Notes: ppm = mg/kg < = less than MLD (minimum level of detection), nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Account: 556

Code: Ccyvdx-Project: 610

· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

Date Received : 06/06/2001

· 44 Beaver Street-8th floor

Date Reported : 07/17/2001

· New York NY 10004

Lab ID Number : 4973.0

MINERALS ANALYSIS

Sample Identification: NRC Primary Screen Unders (<1 3/4"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
..... Total Mineral Nutrients.....				
Total Nitrogen	%	0.812	0.415	8.3
Organic-Nitrogen	%	0.775	0.396	7.9
Phosphorus (P)	%	0.132	0.067	1.3
Potassium (K)	%	0.268	0.137	2.7
Sodium (Na)	%	0.400	0.204	4.1
Calcium (Ca)	%	1.980	1.012	20.2
Magnesium (Mg)	%	0.164	0.084	1.7
..... Soluble Nutrients.....				
Ammonium-N (NH ₄ -N)	ppm	371	190	0.4
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	5118	2616	5.23
Sulfate (SO ₄ -S)	ppm	2284	1167	2.33

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· attn: Venetia Lannon

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Date Received : 06/06/2001

· 44 Beaver Street-8th floor

Date Reported : 07/17/2001

· New York NY 10004

Lab ID Number : 4973.0

METALS ANALYSIS

Sample Identification: NRC Primary Screen Unders (1 3/4"), Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton <i>as is</i>
Copper (Cu)	mg·kg ⁻¹	34.8	17.8	<0.1
Manganese (Mn)	mg·kg ⁻¹	98.4	50.3	0.1
Iron (Fe)	mg·kg ⁻¹	9880.0	5048.7	10.1
Zinc (Zn)	mg·kg ⁻¹	240.0	122.6	0.2
Lead (Pb)	mg·kg ⁻¹	76.0	-	-
Chromium (Cr)	mg·kg ⁻¹	18.4	-	-
Cadmium (Cd)	mg·kg ⁻¹	2.4	-	-
Nickel (Ni)	mg·kg ⁻¹	26.0	-	-
Arsenic (As)	mg·kg ⁻¹	< 4.0	-	-
Mercury (Hg)	mg·kg ⁻¹	0.92	-	-
Molybdenum (Mo)	mg·kg ⁻¹	< 9.9	-	-
Selenium (Se)	mg·kg ⁻¹	< 8.4	-	-
BACTERIOLOGIC ANALYSIS				
Fecal coliform EPA503	MPN per g	58000	-	-
Total <i>Salmonella</i> EPA503 ..	MPN per 4g	< 1.5	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number.

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Account: 556

· attn: Venetia Lannon
 · DOS Waste Prev. Reuse and Recycling
 · 44 Beaver Street-8th floor
 · New York NY 10004

Code: Ccyvdx Project: 610

Date Received : 06/06/2001

Date Reported : 07/17/2001

Lab ID Number : 4973.1

Quality Checked : WD 7/17/01

COMPOSITION ANALYSIS

Sample Identification: NRC Primary Screen Unders (<1 3/4"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	28	758 lbs/yd ³
Solids	%	100.0	53.1	1062 lbs/ton
Moisture	%	0.0	46.9	112 gals/ton
est. water holding capacity	%	228	70	167 gals/ton
Inert and Oversize Matter	%	~	16.4	328.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.08	Med-Ideal
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	7155	3799	M High
Organic Matter	%	73.9	39.2	785 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	3.0	Med-Low
Carbon:Nitrogen (C:N) Ratio	w:w	45.0	45.0	High
Respiration Rate/day ...	C% of Total-C	1.47	1.47	-
Carbon loss per day ...	% of total weight	0.59	0.31	6.2 lbs/ton
Dewar Self-Heating	°C rise	~	42	Grade I
..... Seedling Response Assay, Percent of Control.....				
<i>Lepidium sativum</i> Germination	%	~	40	Very Phytotoxic
<i>Lepidium sativum</i> Weight	%	~	34	Low
Solvita CO ₂ Rate	(see chart)	~	1	Ex. High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	1	Raw Waste!

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Code: Ccyvdx-Project: 610

· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

Date Received : 06/06/2001

· 44 Beaver Street-8th floor

Date Reported : 07/17/2001

· New York NY 10004

Lab ID Number : 4973.1

MINERALS ANALYSIS

Sample Identification: NRC Primary Screen Unders (<1 3/4"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
..... Total Mineral Nutrients.....				
Total Nitrogen	%	0.887	0.471	9.4
Organic-Nitrogen	%	0.874	0.464	9.3
Phosphorus (P)	%	0.104	0.055	1.1
Potassium (K)	%	0.264	0.140	2.8
Sodium (Na)	%	0.388	0.206	4.1
Calcium (Ca)	%	2.048	1.087	21.7
Magnesium (Mg)	%	0.164	0.087	1.7
..... Soluble Nutrients.....				
Ammonium-N (NH ₄ -N)	ppm	126	67	0.1
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	5114	2716	5.43
Sulfate (SO ₄ -S)	ppm	2084	1107	2.21

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· DOS Waste Prev. Reuse and Recycling

Date Received : 06/06/2001

· 44 Beaver Street-8th floor

Date Reported : 07/17/2001

· New York NY 10004

Lab ID Number : 4973.1

METALS ANALYSIS

Sample Identification: NRC Primary Screen Unders (<1 3/4"), Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton <i>as is</i>
Copper (Cu)	mg·kg ⁻¹	42.0	22.3	<0.1
Manganese (Mn)	mg·kg ⁻¹	75.2	39.9	<0.1
Iron (Fe)	mg·kg ⁻¹	3880.0	2060.3	4.1
Zinc (Zn)	mg·kg ⁻¹	196.8	104.5	0.2
Lead (Pb)	mg·kg ⁻¹	52.0	-	-
Chromium (Cr)	mg·kg ⁻¹	16.0	-	-
Cadmium (Cd)	mg·kg ⁻¹	2.0	-	-
Nickel (Ni)	mg·kg ⁻¹	23.6	-	-
Arsenic (As)	mg·kg ⁻¹	< 3.9	-	-
Mercury (Hg)	mg·kg ⁻¹	2.5	-	-
Molybdenum (Mo)	mg·kg ⁻¹	< 9.7	-	-
Selenium (Se)	mg·kg ⁻¹	< 8.2	-	-
BACTERIOLOGIC ANALYSIS				
Fecal coliform EPA503	MPN per g	17000000	-	-
Total <i>Salmonella</i> EPA503 ..	MPN per 4g	< 1.5	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Account: 556

attn: Venetia Lannon
 DOS Waste Prev. Reuse and Recycling
 44 Beaver Street-8th floor
 New York NY 10004

Code: sv Project: 605

Date Received : 06/15/2001

Date Reported : 07/17/2001

Lab ID Number : 4986.0

Quality Checked : *WD 7/17/01*

COMPOSITION ANALYSIS

Sample Identification: NRC Day 7 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	49.8	996 lbs/ton
Moisture	%	0.0	50.2	120 gals/ton
est. water holding capacity	%	241	71	170 gals/ton
Inert and Oversize Matter	%	~	15.0	300.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.27	Med-Ideal
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	19294	9608	High
Organic Matter	%	78.7	39.2	784 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	4.2	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	51.7	51.7	High
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	2	Very Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	0.821	0.409	8.2

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Account: 556

attn: Venetia Lannon
 DOS Waste Prev. Reuse and Recycling
 44 Beaver Street-8th floor
 New York NY 10004

Code: sv Project: 605

Date Received : 06/15/2001

Date Reported : 07/17/2001

Lab ID Number : 4986.1

Quality Checked : *WD 7/17/01*

COMPOSITION ANALYSIS

Sample Identification: NRC Day 7 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	51.4	1028 lbs/ton
Moisture	%	0.0	48.6	117 gals/ton
est. water holding capacity	%	238	70	169 gals/ton
Inert and Oversize Matter	%	~	10.7	214.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.78	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	13900	7145	High
Organic Matter	%	77.3	39.7	794 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	3.4	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	50.9	50.9	High
Solvita CO ₂ Rate	(see chart)	~	2	V. High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	2	Very Immature
..... Total Mineral Nutrients				
Total Nitrogen	%	0.821	0.422	8.4

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: sv Project: 610

Date Received : 06/22/2001

Date Reported : 07/17/2001

Lab ID Number : 4992.0

Quality Checked : *WD 7/17/01*

COMPOSITION ANALYSIS

Sample Identification: NRC Day 14 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	27	725 lbs/yd ³
Solids	%	100.0	49.4	988 lbs/ton
Moisture	%	0.0	50.6	121 gals/ton
est. water holding capacity	%	228	70	167 gals/ton
Inert and Oversize Matter	%	~	16.4	328.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.95	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	2735	1351	Medium
Organic Matter	%	73.9	36.5	730 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	4.2	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	33.9	33.9	Med-High
Solvita CO ₂ Rate	(see chart)	~	4	Med-High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	4	Med-Active
..... Total Mineral Nutrients				
Total Nitrogen	%	1.179	0.582	11.6

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Account: 556

· attn: Venetia Lannon
 · DOS Waste Prev. Reuse and Recycling
 · 44 Beaver Street-8th floor
 · New York NY 10004

Code: sv Project: 610

Date Received : 06/22/2001

Date Reported : 07/17/2001

Lab ID Number : 4992.1

Quality Checked : *WD 7/17/01*

COMPOSITION ANALYSIS

Sample Identification: NRC Day 14 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs·ft ³	-	30	809 lbs/yd ³
Solids	%	100.0	49.8	996 lbs/ton
Moisture	%	0.0	50.2	120 gals/ton
est. water holding capacity	%	227	69	166 gals/ton
Inert and Oversize Matter	%	~	12.1	242.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.94	MedHigh
Free Carbonates (CO ₃)	Rating	~	1	None
Volatile Organic Acids	ppm	1407	701	M Low
Organic Matter	%	73.5	36.6	732 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	4.5	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	34.9	34.9	Med-High
Solvita CO ₂ Rate	(see chart)	~	4	Med-High
Solvita NH ₃ Rate	(see chart)	~	4	Slight
Maturity Index	(see chart)	~	4	Med-Active
..... Total Mineral Nutrients				
Total Nitrogen	%	1.135	0.565	11.3

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· New York NY 10004

Code: sv Project: 610

Date Received : 06/28/2001

Date Reported : 08/03/2001

Lab ID Number : 5000.0

Quality Checked : WD 8/3/01

COMPOSITION ANALYSIS

Sample Identification: NRC Day 21 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	58.2	1164 lbs/ton
Moisture	%	0.0	41.8	100 gals/ton
est. water holding capacity	%	206	67	161 gals/ton
Inert and Oversize Matter	%	~	19.5	390.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.37	Med-Ideal
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	773	450	M Low
Organic Matter	%	65.6	38.2	764 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	3.4	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	28.1	28.1	Med-High
..... Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	80	Slight Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	36	Low
Solvita CO ₂ Rate	(see chart)	~	4	Med-High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	4	Med-Active
..... Total Mineral Nutrients				
Total Nitrogen	%	1.260	0.733	14.7

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· DCS Waste Prev. Reuse and Recycling

· 44 Beaver Street-8th floor

· New York NY 10004

Code: sv Project: 610

Date Received : 06/28/2001

Date Reported : 08/03/2001

Lab ID Number : 5000.0

Quality Checked : WD 8/3/01

COMPOSITION ANALYSIS

Sample Identification: NRC Day 21 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
Solids	%	100.0	58.2	1164 lbs/ton
Moisture	%	0.0	41.8	100 gals/ton
est. water holding capacity	%	206	67	161 gals/ton
Inert and Oversize Matter	%	~	19.5	390.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.37	Med-Ideal
Free Carbonates (CO ₃)	Rating	~	2	Med-High
Volatile Organic Acids	ppm	773	450	M Low
Organic Matter	%	65.6	38.2	764 lbs/ton
Conductivity	mmhos·cm ⁻¹	~	3.4	Medium
Carbon:Nitrogen (C:N) Ratio	w:w	28.1	28.1	Med-High
..... Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	80	Slight Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	36	Low
Solvita CO ₂ Rate	(see chart)	~	4	Med-High
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	4	Med-Active
..... Total Mineral Nutrients				
Total Nitrogen	%	1.260	0.733	14.7

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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 · New York NY 10004

Code: Ccyvdx Project: 610

Date Received : 07/30/2001

Date Reported : 09/19/2001

Lab ID Number : 5036.0

Quality Checked : W.D. 9/19/01

COMPOSITION ANALYSIS

Sample Identification: NRC Day 52 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	28	758 lbs/yd ³
Solids	%	100.0	51.4	1028 lbs/ton
Moisture	%	0.0	48.6	117 gals/ton
est. water holding capacity	%	149	60	143 gals/ton
Inert and Oversize Matter	%	~	27.8	556.0 lbs/ton
pH (paste, H ₂ O)	-logH ⁺	~	7.94	MedHigh
Free Carbonates (CO ₃)	Rating	~	3	V High
Volatile Organic Acids	ppm	389	200	V Low
Organic Matter	%	44.9	23.1	462 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	7.7	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	8.4	8.4	V. Low
Respiration Rate/day ...	C% of Total-C	0.63	0.63	-
Carbon loss per day ...	% of total weight	0.15	0.08	1.6 lbs/ton
Dewar Self-Heating	°C rise	~	5	Grade V
..... Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	95	No Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	69	Fair
Solvita CO ₂ Rate	(see chart)	~	6	Med-Low
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	6	Active-Curing

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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†For explanation of data, see Woods End Laboratory Interpretation Sheet

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Code: Ccyvdx-Project: 610

· attn: Venetia Lannon

· DOS Waste Prev. Reuse and Recycling

Date Received : 07/30/2001

· 44 Beaver Street-8th floor

Date Reported : 09/19/2001

· New York NY 10004

Lab ID Number : 5036.0

MINERALS ANALYSIS

Sample Identification: NRC Day 52 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
..... Total Mineral Nutrients				
Total Nitrogen	%	2.891	1.486	29.7
Organic-Nitrogen	%	2.873	1.477	29.5
Phosphorus (P)	%	0.184	0.095	1.9
Potassium (K)	%	0.384	0.197	3.9
Sodium (Na)	%	0.740	0.380	7.6
Calcium (Ca)	%	3.520	1.809	36.2
Magnesium (Mg)	%	0.296	0.152	3.0
..... Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	176	90	0.2
Nitrate-N	ppm	<2	< 1	nd
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	9496	4881	9.76
Sulfate (SO ₄ -S)	ppm	3015	1550	3.10

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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Code: Ccyvdx-Project: 610

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· New York NY 10004

Date Received : 07/30/2001

Date Reported : 09/19/2001

Lab ID Number : 5036.0

METALS ANALYSIS

Sample Identification: NRC Day 52 Bench-Scale, Sample A

VARIABLE MEASURED	Unit	dry basis	as is basis†	pounds/ton as is
Copper (Cu)	mg·kg ⁻¹	77.6	39.9	<0.1
Manganese (Mn)	mg·kg ⁻¹	156.0	80.2	0.2
Iron (Fe)	mg·kg ⁻¹	5400.0	2775.6	5.6
Zinc (Zn)	mg·kg ⁻¹	356.0	183.0	0.4
Lead (Pb)	mg·kg ⁻¹	152.0	78.1	0.2
Chromium (Cr)	mg·kg ⁻¹	26.8	-	-
Cadmium (Cd)	mg·kg ⁻¹	3.6	-	-
Nickel (Ni)	mg·kg ⁻¹	25.2	-	-

Notes: mg·kg⁻¹ = ppm (parts per million); MPN = most probable number

< signifies less than MLD (minimum level of detection) for the particular factor tested

† = EPA reporting requires dry basis only

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Code: Ccyvdx Project: 610

Date Received : 07/30/2001

Date Reported : 09/19/2001

Lab ID Number : 5036.1

Quality Checked : WJ 9/19/01

COMPOSITION ANALYSIS

Sample Identification: NRC Day 52 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	Notations †
DENSITY	lbs-ft ³	-	32	876 lbs/yd ³
Solids	%	100.0	43.3	866 lbs/ton
Moisture	%	0.0	56.7	136 gals/ton
est. water holding capacity	%	176	64	153 gals/ton
Inert and Oversize Matter	%	~	21.4	428.0 lbs/ton
pH (paste; H ₂ O)	-logH ⁺	~	8.17	Med-High
Free Carbonates (CO ₃)	Rating	~	3	V High
Volatile Organic Acids	ppm	692	300	M Low
Organic Matter	%	54.9	23.8	476 lbs/ton
Conductivity	mmhos-cm ⁻¹	~	6.4	Med-High
Carbon:Nitrogen (C:N) Ratio	w:w	8.0	8.0	V. Low
Respiration Rate/day ...	C% of Total-C	0.47	0.47	-
Carbon loss per day ...	% of total weight	0.14	0.06	1.2 lbs/ton
Dewar Self-Heating	°C rise	~	5	Grade V
..... Seedling Response Assay, Percent of Control				
<i>Lepidium sativum</i> Germination	%	~	93	No Phytotoxicity
<i>Lepidium sativum</i> Weight	%	~	42	Low
Solvita CO ₂ Rate	(see chart)	~	6	Med-Low
Solvita NH ₃ Rate	(see chart)	~	5	Absent
Maturity Index	(see chart)	~	6	Active-Curing

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· DOS Waste Prev. Reuse and Recycling

Date Received : 07/30/2001

· 44 Beaver Street-8th floor

Date Reported : 09/19/2001

· New York NY 10004

Lab ID Number : 5036.1

MINERALS ANALYSIS

Sample Identification: NRC Day 52 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton as is
..... Total Mineral Nutrients.....				
Total Nitrogen	%	3.694	1.600	32.0
Organic-Nitrogen	%	3.679	1.593	31.9
Phosphorus (P)	%	0.184	0.080	1.6
Potassium (K)	%	0.480	0.208	4.2
Sodium (Na)	%	0.772	0.334	6.7
Calcium (Ca)	%	4.000	1.732	34.6
Magnesium (Mg)	%	0.308	0.133	2.7
..... Soluble Nutrients.....				
Ammonium-N (NH ₄ -N)	ppm	85	37	0.1
Nitrate-N	ppm	67	29	0.1
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	9856	4268	8.54
Sulfate (SO ₄ -S)	ppm	3469	1502	3.00

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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· 44 Beaver Street-8th floor

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Date Received : 07/30/2001

Date Reported : 09/19/2001

Lab ID Number : 5036.1

MINERALS ANALYSIS

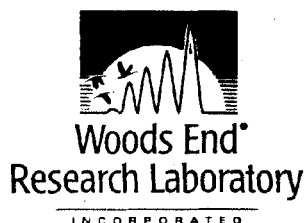
Sample Identification: NRC Day 52 Bench-Scale, Sample B

VARIABLE MEASURED	Unit	dry basis	as is basis	pounds/ton <i>as is</i>
Total Mineral Nutrients				
Total Nitrogen	%	3.694	1.600	32.0
Organic-Nitrogen	%	3.679	1.593	31.9
Phosphorus (P)	%	0.184	0.080	1.6
Potassium (K)	%	0.480	0.208	4.2
Sodium (Na)	%	0.772	0.334	6.7
Calcium (Ca)	%	4.000	1.732	34.6
Magnesium (Mg)	%	0.308	0.133	2.7
Soluble Nutrients				
Ammonium-N (NH ₄ -N)	ppm	85	37	0.1
Nitrate-N	ppm	67	29	0.1
Nitrite-N	ppm	<2	< 1	nd
Chloride (Cl)	ppm	9856	4268	8.54
Sulfate (SO ₄ -S)	ppm	3469	1502	3.00

Notes: ppm = mg/kg < = less than MLD (minimum level of detection); nd = none detected

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NRC Primary Screen Unders (<1 3/4")
Sample A



Date : Thursday, July 12, 2001

Certificate of Analysis

EPA Method 8081A/8082 - Organochlorine Pesticides/PCB's

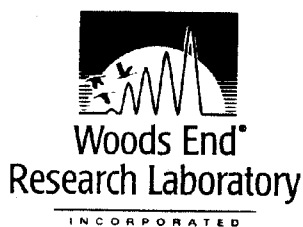
Sample Name: 4973.0
Sample Location: COMPOST
Sampling Date: 6/19/2001
Sampling Time: 14:00
Date Received: 6/21/2001

Lab #: 01X0682-01
Matrix: SOIL
Analyst: HY
Extract Date: 6/25/2001
Analysis Date: 6/27/2001

Analyte	Result	Units	PQL
alpha-BHC:	ND	mg/Kg	0.02
gamma-BHC (Lindane):	ND	mg/Kg	0.02
Heptachlor:	ND	mg/Kg	0.02
Aldrin:	ND	mg/Kg	0.02
beta-BHC:	ND	mg/Kg	0.02
delta-BHC:	ND	mg/Kg	0.02
Heptachlor Epoxide:	ND	mg/Kg	0.02
Endosulfan I:	ND	mg/Kg	0.02
4,4'-DDE:	ND	mg/Kg	0.02
Dieldrin:	ND	mg/Kg	0.02
Endrin:	ND	mg/Kg	0.02
Endosulfan II:	ND	mg/Kg	0.02
4,4'-DDD:	ND	mg/Kg	0.02
4,4'-DDT:	ND	mg/Kg	0.02
Endrin Aldehyde:	ND	mg/Kg	0.02
Endosulfan Sulfate:	ND	mg/Kg	0.02
Methoxychlor:	ND	mg/Kg	0.10
Endrin Ketone:	ND	mg/Kg	0.02
Chlordane:	ND	mg/Kg	0.2
Toxaphene:	ND	mg/Kg	0.2
Arochlor 1016:	ND	mg/Kg	0.2
Arochlor 1221:	ND	mg/Kg	0.2
Arochlor 1232:	ND	mg/Kg	0.2
Arochlor 1242:	ND	mg/Kg	0.2
Arochlor 1248:	ND	mg/Kg	0.2
Arochlor 1254:	ND	mg/Kg	0.2
Arochlor 1260:	ND	mg/Kg	0.2
Surrogate Standard	% Recovery		
TCX %R	53.7		

Appendix H: Data from the Four-Facility Survey

NRC Primary Screen Unders (<1 3/4")
Sample B



Date : Thursday, July 12, 2001

Certificate of Analysis EPA Method 8081A/8082 - Organochlorine Pesticides/PCB's

Sample Name: 4973.1
Sample Location: COMPOST
Sampling Date: 6/19/2001
Sampling Time: 14:00
Date Received: 6/21/2001

Lab #: 01X0682-02
Matrix: SOIL
Analyst: HY
Extract Date: 6/25/2001
Analysis Date: 6/27/2001

Analyte	Result	Units	PQL
alpha-BHC:	ND	mg/Kg	0.02
gamma-BHC (Lindane):	ND	mg/Kg	0.02
Heptachlor:	ND	mg/Kg	0.02
Aldrin:	ND	mg/Kg	0.02
beta-BHC:	ND	mg/Kg	0.02
delta-BHC:	ND	mg/Kg	0.02
Heptachlor Epoxide:	ND	mg/Kg	0.02
Endosulfan I:	ND	mg/Kg	0.02
4,4'-DDE:	ND	mg/Kg	0.02
Dieldrin:	ND	mg/Kg	0.02
Endrin:	ND	mg/Kg	0.02
Endosulfan II:	ND	mg/Kg	0.02
4,4'-DDD:	ND	mg/Kg	0.02
4,4'-DDT:	ND	mg/Kg	0.02
Endrin Aldehyde:	ND	mg/Kg	0.02
Endosulfan Sulfate:	ND	mg/Kg	0.02
Methoxychlor:	ND	mg/Kg	0.10
Endrin Ketone:	ND	mg/Kg	0.02
Chlordane:	ND	mg/Kg	0.2
Toxaphene:	ND	mg/Kg	0.2
Arochlor 1016:	ND	mg/Kg	0.2
Arochlor 1221:	ND	mg/Kg	0.2
Arochlor 1232:	ND	mg/Kg	0.2
Arochlor 1242:	ND	mg/Kg	0.2
Arochlor 1248:	ND	mg/Kg	0.2
Arochlor 1254:	ND	mg/Kg	0.2
Arochlor 1260:	ND	mg/Kg	0.2

Surrogate Standard	% Recovery
TCX %R	61.5

Lab Supervisor:

Report Date:

11-Jul-01