

**LANCASTER COUNTY**  
**SOLID WASTE MANAGEMENT**  
**AUTHORITY**

1299 HARRISBURG PIKE  
P.O. BOX 4425  
LANCASTER, PA 17604  
PHONE: (717) 397-9968  
FAX: (717) 397-9973  
www.lcswma.org



October 17, 2011

Ms. Charlene Sauls; Regional Hydrogeologist  
Pennsylvania Department of Environmental Protection  
Bureau of Waste Management  
909 Elmerton Avenue  
Harrisburg, PA 17110-8200

REF: Private Water Supply  
Quarterly Water Quality Analysis  
Frey Farm Landfill; BWM Permit #101389

Dear Ms. Sauls:

As required by the Pennsylvania Department of Environmental Protection, the Lancaster County Solid Waste Management Authority (LCSWMA) continues the above referenced water quality monitoring program. Enclosed are the reports for the Third Quarter 2011 sampling event in electronic format (per the CD containing the file CWCG0811.csv; which should be compatible for importing the data into your LandLinks software).

The laboratory data was reviewed to analyze for changes or trends that may be apparent and as a quality assurance check of the information. In summary:

**(A) General**

- All of the eight (8) privately owned contiguous locations were sampled
- Additionally, two (2) LCSWMA-owned locations were sampled

**(B) VOCs**

- There were no Form 52 volatile organic compounds (VOC) detects to report from any of the monitored locations.

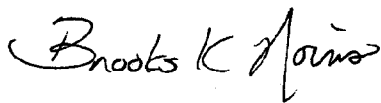
Private Water Supply  
Quarterly Water Quality Analysis  
October 17, 2011  
Page 2 of 2

**(C) Water Quality Indicators**

- All monitored parameters at the ten (10) sampled locations were generally typical of historical and/or seasonal results.

LCSWMA will continue to sample, review and report this information on a quarterly basis with our next sampling currently scheduled to occur in November 2011. Feel free to call if you have any questions or require additional information in any regard.

Sincerely,



Brooks K. Norris  
Senior Manager, Technical Services

Enclosures

cc: Bob Zorbaugh, Bob Eshbach, Emily Kauffman  
John Spang (PaDEP w/Forms as pdf)  
Ed Rawski (PaDEP)  
Randy Weiss (PaDEP)



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF LAND RECYCLING AND WASTE

Date Prepared/Revised  
10/17/2011

DEP USE ONLY

Date Received

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 52, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Act 101 Section 1103

**SECTION A. SITE IDENTIFIER**

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Creswell Landfill

Facility ID (as issued by DEP): 101389

**SECTION B. PRIVATE WATER SUPPLY INFORMATION**

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Creswell Landfill

County: Lancaster County

Township or Municipality: Manor Township

Landowner Name: CHRIS & ELIZABETH BECK

Address: 3125 River Road

Phone No.:

Sampling Point: Latitude: 39° 57' 11.6" Longitude: 76° 26' 5.4"

Depth to Water Level: \_\_\_\_\_ ft.

Measured from:  Land Surface  TOC

Casing Stick Up: \_\_\_\_\_ ft.

Elevation of Water Level: \_\_\_\_\_ ft./MSL

Total Well Depth: \_\_\_\_\_ ft.

Sampling Depth: \_\_\_\_\_ ft.

Sampling Method:  Pumped  Bailed

Well Purged:  Yes  No

Well Volumes Purged: \_\_\_\_\_

Sample Field Filtered (must be 0.45 micron)?  Yes  No

Sample Date:(mm/dd/yy) 08/19/2011

Sample Collection Time: 12:07 PM

Laboratory(ies) Performing Analysis Analytical Laboratory Services, Inc.

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

08/29/2011

Were any holding times exceeded?: Yes  No  If yes, please explain in comments field.

Comments:

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGBCKW

Sample Date

08/19/2011

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	17	SM 2321
CALCIUM, TOTAL	14.8	EPA 200.7
CALCIUM, DISSOLVED	14.9	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	62.1	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	8.4	EPA 200.7
MAGNESIUM, DISSOLVED	8.3	EPA 200.7
MANGANESE, TOTAL (ug/l)	65	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	69	EPA 200.7
NITRATE-NITROGEN	10.1	EPA 300

T Please indicate detection limit if analyte is not detected.

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**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGBCKW

Sample Date

08/19/2011

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE-NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.17	FIELD
pH-LAB (SU)	6.07	SM 4500B
POTASSIUM, TOTAL	4.2	EPA 200.7
POTASSIUM, DISSOLVED	4.5	EPA 200.7
SODIUM, TOTAL	26.9	EPA 200.7
SODIUM, DISSOLVED	29.1	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	329	FIELD
SPEC. COND., LAB (umhos/cm)	350	EPA 120.1
SULFATE	6.6	EPA 300
ALKALINITY	17	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	163	SM 2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM 5310B
TOTAL PHENOLICS (ug/l)	10 ND	EPA 420.4
TURBIDITY (NTU)	0.1 ND	SM 2130B

T Please indicate detection limit if analyte is not detected.

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**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGBCKW

Sample Date

08/19/2011

## 2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE (EDB) (ETHYLENE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
cis 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
trans 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	1.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF LAND RECYCLING AND WASTE

Date Prepared/Revised 10/17/2011
<b>DEP USE ONLY</b>
Date Received

**FORM 52**  
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**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

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General Reference: Act 101 Section 1103	
<b>SECTION A. SITE IDENTIFIER</b>	
Applicant/permittee:	Lancaster County Solid Waste Manage
Site Name:	Creswell Landfill
Facility ID (as issued by DEP):	101389
<b>SECTION B. PRIVATE WATER SUPPLY INFORMATION</b>	
INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")	
Facility Name:	Creswell Landfill
County:	Lancaster County
Township or Municipality:	Manor Township
Landowner Name:	BRIAN BYERS
Address:	3088 River Road
Phone No.:	
Sampling Point:	Latitude: <u>39° 57' 21"</u> Longitude: <u>76° 26' 7.1"</u>
Depth to Water Level:	_____ ft. Measured from: <input checked="" type="checkbox"/> Land Surface <input type="checkbox"/> TOC
Casing Stick Up:	_____ ft. Elevation of Water Level: _____ ft./MSL
Total Well Depth:	_____ ft.
Sampling Depth:	_____ ft. Sampling Method: <input type="checkbox"/> Pumped <input type="checkbox"/> Bailed
Well Purged:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Volumes Purged: _____
Sample Field Filtered (must be 0.45 micron)?:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Date:(mm/dd/yy)	<u>08/17/2011</u> Sample Collection Time: <u>10:13 AM</u>
Laboratory(ies) Performing Analysis (include address and phone number)	Analytical Laboratory Services, Inc. 34 Dogwood Lane Middletown, PA 17057 (717) 944-5541
Lab Accreditation Number(s)	22-293
Lab Analysis Date	08/27/2011
Were any holding times exceeded?:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, please explain in comments field.
Comments:	

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGFELW

Sample Date

08/17/2011

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	23	SM 2321
CALCIUM, TOTAL	26.2	EPA 200.7
CALCIUM, DISSOLVED	27	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	49	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	9.9	EPA 200.7
MAGNESIUM, DISSOLVED	9.5	EPA 200.7
MANGANESE, TOTAL (ug/l)	70	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	71	EPA 200.7
NITRATE-NITROGEN	11.4	EPA 300

T Please indicate detection limit if analyte is not detected.

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**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGFELW

Sample Date

08/17/2011

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE-NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.27	FIELD
pH-LAB (SU)	5.7	SM 4500B
POTASSIUM, TOTAL	2.7	EPA 200.7
POTASSIUM, DISSOLVED	2.6	EPA 200.7
SODIUM, TOTAL	18.9	EPA 200.7
SODIUM, DISSOLVED	20.7	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	366	FIELD
SPEC. COND., LAB (umhos/cm)	376	EPA 120.1
SULFATE	35.3	EPA 300
ALKALINITY	23	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	240	SM 2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM 5310B
TOTAL PHENOLICS (ug/l)	10 ND	EPA 420.4
TURBIDITY (NTU)	0.1 ND	SM 2130B

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Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGFELW

Sample Date

08/17/2011

## 2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE (EDB) (ETHYLENE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
cis 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
trans 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	1.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.



Date Prepared/Revised 10/17/2011
<b>DEP USE ONLY</b>
Date Received

**FORM 52  
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PRIVATE WATER SUPPLY  
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General Reference: Act 101 Section 1103	
<b>SECTION A. SITE IDENTIFIER</b>	
Applicant/permittee:	Lancaster County Solid Waste Manage
Site Name:	Creswell Landfill
Facility ID (as issued by DEP):	101389
<b>SECTION B. PRIVATE WATER SUPPLY INFORMATION</b>	
INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")	
Facility Name:	Creswell Landfill
County:	Lancaster County
Township or Municipality:	Manor Township
Landowner Name:	MRS. VERNA M. GRAVER
Address:	3060 River Road
Phone No.:	
Sampling Point:	Latitude: <u>39° 57' 27.4"</u> Longitude: <u>76° 26' 10.7"</u>
Depth to Water Level:	_____ ft. Measured from: <input checked="" type="checkbox"/> Land Surface <input type="checkbox"/> TOC
Casing Stick Up:	_____ ft. Elevation of Water Level: _____ ft./MSL
Total Well Depth:	_____ ft.
Sampling Depth:	_____ ft. Sampling Method: <input type="checkbox"/> Pumped <input type="checkbox"/> Bailed
Well Purged:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Volumes Purged: _____
Sample Field Filtered (must be 0.45 micron)?:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Date:(mm/dd/yy)	<u>08/19/2011</u> Sample Collection Time: <u>12:12 PM</u>
Laboratory(ies) Performing Analysis	<u>Analytical Laboratory Services, Inc.</u>
(include address and phone number)	<u>34 Dogwood Lane</u> <u>Middletown, PA 17057</u> <u>(717) 944-5541</u>
Lab Accreditation Number(s)	<u>22-293</u>
Lab Analysis Date	<u>08/30/2011</u>
Were any holding times exceeded?:	<u>Yes</u> <input checked="" type="checkbox"/> <u>No</u> <input type="checkbox"/> If yes, please explain in comments field.
Comments:	

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGGRAW

Sample Date

08/19/2011

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	5 ND	SM 2321
CALCIUM, TOTAL	12.1	EPA 200.7
CALCIUM, DISSOLVED	12.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	25	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	64	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	13.8	EPA 200.7
MAGNESIUM, DISSOLVED	13.5	EPA 200.7
MANGANESE, TOTAL (ug/l)	110	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	120	EPA 200.7
NITRATE-NITROGEN	19.8	EPA 300

T Please indicate detection limit if analyte is not detected.

**FORM 52  
MUNICIPAL WASTE LANDFILL  
PRIVATE WATER SUPPLY  
QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGRAW

Sample Date

08/19/2011

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE-NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.08	FIELD
pH-LAB (SU)	5.8	SM 4500B
POTASSIUM, TOTAL	2.4	EPA 200.7
POTASSIUM, DISSOLVED	8.5	EPA 200.7
SODIUM, TOTAL	6.8	EPA 200.7
SODIUM, DISSOLVED	7.5	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	256	FIELD
SPEC. COND., LAB (umhos/cm)	267	EPA 120.1
SULFATE	10.9	EPA 300
ALKALINITY	5 ND	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	193	SM 2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM 5310B
TOTAL PHENOLICS (ug/l)	10 ND	EPA 420.4
TURBIDITY (NTU)	0.1 ND	SM 2130B

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**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGRAW

Sample Date

08/19/2011

## 2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE (EDB) (ETHYLENE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
cis 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
trans 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	1.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.



Date Prepared/Revised 10/17/2011
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General Reference: Act 101 Section 1103	
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Applicant/permittee:	Lancaster County Solid Waste Manage
Site Name:	Creswell Landfill
Facility ID (as issued by DEP):	101389
<b>SECTION B. PRIVATE WATER SUPPLY INFORMATION</b>	
INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")	
Facility Name:	Creswell Landfill
County:	Lancaster County
Township or Municipality:	Manor Township
Landowner Name:	DAVID C. & PATRICIA S. HILL
Address:	3106 River Road
Phone No.:	
Sampling Point:	Latitude: <u>39° 57' 17.27"</u> Longitude: <u>76° 26' 5.6"</u>
Depth to Water Level:	ft. Measured from: <input checked="" type="checkbox"/> Land Surface <input type="checkbox"/> TOC
Casing Stick Up:	ft. Elevation of Water Level: _____ ft./MSL
Total Well Depth:	ft.
Sampling Depth:	ft. Sampling Method: <input type="checkbox"/> Pumped <input type="checkbox"/> Bailed
Well Purged:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Well Volumes Purged: _____
Sample Field Filtered (must be 0.45 micron)?:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Date:(mm/dd/yy)	<u>08/17/2011</u> Sample Collection Time: <u>10:06 AM</u>
Laboratory(ies) Performing Analysis	<u>Analytical Laboratory Services, Inc.</u>
(include address and phone number)	<u>34 Dogwood Lane</u> <u>Middletown, PA 17057</u> (717) 944-5541
Lab Accreditation Number(s)	<u>22-293</u>
Lab Analysis Date	<u>08/27/2011</u>
Were any holding times exceeded?:	<u>Yes</u> <input checked="" type="checkbox"/> <u>No</u> <input type="checkbox"/> If yes, please explain in comments field.
Comments:	

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**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGHILW

Sample Date

08/17/2011

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	12	SM 2321
CALCIUM, TOTAL	10.8	EPA 200.7
CALCIUM, DISSOLVED	11.6	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	44.2	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	51	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	7.1	EPA 200.7
MAGNESIUM, DISSOLVED	7.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	24	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	26	EPA 200.7
NITRATE-NITROGEN	12.2	EPA 300

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Sample Date

08/17/2011

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE-NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.37	FIELD
pH-LAB (SU)	6.33	SM 4500B
POTASSIUM, TOTAL	1.6	EPA 200.7
POTASSIUM, DISSOLVED	1.5	EPA 200.7
SODIUM, TOTAL	25.4	EPA 200.7
SODIUM, DISSOLVED	28.5	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	299	FIELD
SPEC. COND., LAB (umhos/cm)	298	EPA 120.1
SULFATE	5.7	EPA 300
ALKALINITY	12	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	202	SM 2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM 5310B
TOTAL PHENOLICS (ug/l)	10 ND	EPA 420.4
TURBIDITY (NTU)	0.33	SM 2130B

T Please indicate detection limit if analyte is not detected.

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGHILW

Sample Date

08/17/2011

## 2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE (EDB) (ETHYLENE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
cis 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
trans 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	1.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF LAND RECYCLING AND WASTE

Date Prepared/Revised  
10/17/2011

DEP USE ONLY

Date Received

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 52, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Act 101 Section 1103

**SECTION A. SITE IDENTIFIER**

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Creswell Landfill

Facility ID (as issued by DEP): 101389

**SECTION B. PRIVATE WATER SUPPLY INFORMATION**

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Creswell Landfill

County: Lancaster County

Township or Municipality: Manor Township

Landowner Name: LARRY & ANN KIRCHNER

Address: 3100 River Road

Phone No.:

Sampling Point: Latitude: 39° 57' 17.9" Longitude: 76° 26' 6.28"

Depth to Water Level: \_\_\_\_\_ ft.

Measured from:  Land Surface  TOC

Casing Stick Up: \_\_\_\_\_ ft.

Elevation of Water Level: \_\_\_\_\_ ft./MSL

Total Well Depth: \_\_\_\_\_ ft.

Sampling Depth: \_\_\_\_\_ ft.

Sampling Method:  Pumped  Bailed

Well Purged:  Yes  No

Well Volumes Purged: \_\_\_\_\_

Sample Field Filtered (must be 0.45 micron)?:  Yes  No

Sample Date:(mm/dd/yy) 08/16/2011

Sample Collection Time: 11:00 AM

Laboratory(ies) Performing Analysis Analytical Laboratory Services, Inc.

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

08/27/2011

Were any holding times exceeded?: Yes  No  If yes, please explain in comments field.

Comments:

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number	101389
Monitoring Point I.D. No.	PS CWCGKIRW
Sample Date	08/16/2011

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	12	SM 2321
CALCIUM, TOTAL	21.9	EPA 200.7
CALCIUM, DISSOLVED	23.8	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	51.8	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	8.7	EPA 200.7
MAGNESIUM, DISSOLVED	8.6	EPA 200.7
MANGANESE, TOTAL (ug/l)	9.4	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	9.9	EPA 200.7
NITRATE-NITROGEN	9.8	EPA 300

T Please indicate detection limit if analyte is not detected.

**FORM 52  
MUNICIPAL WASTE LANDFILL  
PRIVATE WATER SUPPLY  
QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGKIRW

Sample Date

08/16/2011

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE-NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	5.89	FIELD
pH-LAB (SU)	6.01	SM 4500B
POTASSIUM, TOTAL	1.4	EPA 200.7
POTASSIUM, DISSOLVED	1.6	EPA 200.7
SODIUM, TOTAL	11.1	EPA 200.7
SODIUM, DISSOLVED	12.3	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	326	FIELD
SPEC. COND., LAB (umhos/cm)	306	EPA 120.1
SULFATE	7.6	EPA 300
ALKALINITY	12	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	240	SM 2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM 5310B
TOTAL PHENOLICS (ug/l)	10 ND	EPA 420.4
TURBIDITY (NTU)	0.13	SM 2130B

T Please indicate detection limit if analyte is not detected.

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGKIRW

Sample Date

08/16/2011

## 2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE (EDB) (ETHYLENE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
cis 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
trans 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	1.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.


 Date Prepared/Revised  
 10/17/2011

DEP USE ONLY

Date Received

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

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General Reference: Act 101 Section 1103

**SECTION A. SITE IDENTIFIER**

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Creswell Landfill

Facility ID (as issued by DEP): 101389

**SECTION B. PRIVATE WATER SUPPLY INFORMATION**

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Creswell Landfill

County: Lancaster County

Township or Municipality: Manor Township

Landowner Name: GERALD E., SR &amp; JUDITH MILLE

Address: 3052 River Road

Phone No.:

Sampling Point: Latitude: 39° 57' 29.85" Longitude: 76° 26' 11.45"

 Depth to Water Level: \_\_\_\_\_ ft. Measured from:  Land Surface  TOC  
 Casing Stick Up: \_\_\_\_\_ ft. Elevation of Water Level: \_\_\_\_\_ ft./MSL

 Total Well Depth: \_\_\_\_\_ ft. Sampling Method:  Pumped  Bailed  
 Sampling Depth: \_\_\_\_\_ ft.

 Well Purged:  Yes  No Well Volumes Purged: \_\_\_\_\_

 Sample Field Filtered (must be 0.45 micron)?:  Yes  No

Sample Date:(mm/dd/yy) 09/27/2011 Sample Collection Time: 10:19 AM

Laboratory(ies) Performing Analysis Analytical Laboratory Services, Inc.

 (include address and phone number) 34 Dogwood Lane  
 Middletown, PA 17057 (717) 944-5541

Lab Accreditation Number(s) 22-293

Lab Analysis Date 10/07/2011

 Were any holding times exceeded?: Yes  No  If yes, please explain in comments field.

Comments:

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGMILW

Sample Date

09/27/2011

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	116	SM 2321
CALCIUM, TOTAL	37.1	EPA 200.7
CALCIUM, DISSOLVED	38.2	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	18.2	EPA 300
FLUORIDE	0.1 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	23.2	EPA 200.7
MAGNESIUM, DISSOLVED	22.3	EPA 200.7
MANGANESE, TOTAL (ug/l)	2.5 ND	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	5 ND	EPA 200.7
NITRATE-NITROGEN	19.6	EPA 300

T Please indicate detection limit if analyte is not detected.

**FORM 52  
MUNICIPAL WASTE LANDFILL  
PRIVATE WATER SUPPLY  
QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number	101389
Monitoring Point I.D. No.	PS CWCGMILW
Sample Date	09/27/2011

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE-NITROGEN	0.1 ND	EPA 300
pH-FIELD (SU)	7.09	FIELD
pH-LAB (SU)	7.34	SM 4500B
POTASSIUM, TOTAL	2.1	EPA 200.7
POTASSIUM, DISSOLVED	2	EPA 200.7
SODIUM, TOTAL	7.8	EPA 200.7
SODIUM, DISSOLVED	7.7	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	436	FIELD
SPEC. COND., LAB (umhos/cm)	442	EPA 120.1
SULFATE	1 ND	EPA 300
ALKALINITY	116	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	192	SM 2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM 5310B
TOTAL PHENOLICS (ug/l)	10 ND	EPA 420.4
TURBIDITY (NTU)	0.24	SM 2130B

T Please indicate detection limit if analyte is not detected.

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGMILW

Sample Date

09/27/2011

## 2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE (EDB) (ETHYLENE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
cis 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
trans 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	1.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.


 Date Prepared/Revised  
 10/17/2011

DEP USE ONLY

Date Received

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

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General Reference: Act 101 Section 1103

**SECTION A. SITE IDENTIFIER**

Applicant/permittee: Lancaster County Solid Waste Manage

Site Name: Creswell Landfill

Facility ID (as issued by DEP): 101389

**SECTION B. PRIVATE WATER SUPPLY INFORMATION**

INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")

Facility Name: Creswell Landfill

County: Lancaster County

Township or Municipality: Manor Township

Landowner Name: MR. BRIAN SENSENICH

Address: 3076 River Road

Phone No.:

Sampling Point: Latitude: 39° 57' 28.2" Longitude: 76° 26' 11.1"

Depth to Water Level: \_\_\_\_\_ ft.

 Measured from:  Land Surface  TOC

Casing Stick Up: \_\_\_\_\_ ft.

Elevation of Water Level: \_\_\_\_\_ ft./MSL

Total Well Depth: \_\_\_\_\_ ft.

Sampling Depth: \_\_\_\_\_ ft.

 Sampling Method:  Pumped  Bailed

 Well Purged:  Yes  No

Well Volumes Purged: \_\_\_\_\_

 Sample Field Filtered (must be 0.45 micron):  Yes  No

Sample Date:(mm/dd/yy) 08/17/2011

Sample Collection Time: 10:19 AM

Laboratory(ies) Performing Analysis Analytical Laboratory Services, Inc.

(include address and phone number)

34 Dogwood Lane

Middletown, PA 17057

(717) 944-5541

Lab Accreditation Number(s)

22-293

Lab Analysis Date

08/27/2011

 Were any holding times exceeded?:  Yes  No If yes, please explain in comments field.

Comments:

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGSCHW

Sample Date

08/17/2011

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	8	SM 2321
CALCIUM, TOTAL	14.2	EPA 200.7
CALCIUM, DISSOLVED	15.2	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	46.4	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	9.3	EPA 200.7
MAGNESIUM, DISSOLVED	9.3	EPA 200.7
MANGANESE, TOTAL (ug/l)	210	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	220	EPA 200.7
NITRATE-NITROGEN	12.2	EPA 300

T Please indicate detection limit if analyte is not detected.

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGSCHW

Sample Date

08/17/2011

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE-NITROGEN	0.2 ND	EPA 300
pH-FIELD (SU)	6.11	FIELD
pH-LAB (SU)	5.9	SM 4500B
POTASSIUM, TOTAL	2.9	EPA 200.7
POTASSIUM, DISSOLVED	2.8	EPA 200.7
SODIUM, TOTAL	17.3	EPA 200.7
SODIUM, DISSOLVED	18.6	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	292	FIELD
SPEC. COND., LAB (umhos/cm)	307	EPA 120.1
SULFATE	13.1	EPA 300
ALKALINITY	8	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	188	SM 2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM 5310B
TOTAL PHENOLICS (ug/l)	10 ND	EPA 420.4
TURBIDITY (NTU)	0.1 ND	SM 2130B

T Please indicate detection limit if analyte is not detected.

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGSCHW

Sample Date

08/17/2011

## 2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE (EDB) (ETHYLENE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
cis 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
trans 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	1.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.



Date Prepared/Revised 10/17/2011
<b>DEP USE ONLY</b>
Date Received

**FORM 52  
MUNICIPAL WASTE LANDFILL  
PRIVATE WATER SUPPLY  
QUARTERLY AND ANNUAL WATER QUALITY ANALYSES**

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 52, reference the item number and identify the date prepared. The "date prepared/revised" on any attached sheets needs to match the "date prepared/revised" on this page.

General Reference: Act 101 Section 1103	
<b>SECTION A. SITE IDENTIFIER</b>	
Applicant/permittee:	Lancaster County Solid Waste Manage
Site Name:	Creswell Landfill
Facility ID (as issued by DEP):	101389
<b>SECTION B. PRIVATE WATER SUPPLY INFORMATION</b>	
INDICATE THE LATITUDE AND LONGITUDE TO THE NEAREST ONE TENTH OF A SECOND (DD° MM' SS.S")	
Facility Name:	Creswell Landfill
County:	Lancaster County
Township or Municipality:	Manor Township
Landowner Name:	NELSON L. & NANCY E. SMITH
Address:	3044 River Road
Phone No.:	
Sampling Point:	Latitude: 39° 57' 30.85" Longitude: 76° 26' 11.25"
Depth to Water Level:	ft. Measured from: <input checked="" type="checkbox"/> Land Surface <input type="checkbox"/> TOC
Casing Stick Up:	ft. Elevation of Water Level: ft./MSL
Total Well Depth:	ft. Sampling Method: <input type="checkbox"/> Pumped <input type="checkbox"/> Bailed
Sampling Depth:	ft. Well Volumes Purged: _____
Well Purged:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sample Field Filtered (must be 0.45 micron)?:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Date:(mm/dd/yy)	08/17/2011 Sample Collection Time: 10:29 AM
Laboratory(ies) Performing Analysis (include address and phone number)	Analytical Laboratory Services, Inc. 34 Dogwood Lane Middletown, PA 17057 (717) 944-5541
Lab Accreditation Number(s)	22-293
Lab Analysis Date	08/27/2011
Were any holding times exceeded?:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, please explain in comments field.
Comments:	

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCOSMIW

Sample Date

08/17/2011

1. Inorganics (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	6	SM 2321
CALCIUM, TOTAL	13	EPA 200.7
CALCIUM, DISSOLVED	13.7	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	17.9	EPA 300
FLUORIDE	0.1 ND	EPA 300
IRON, TOTAL (ug/l)	30 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	11.1	EPA 200.7
MAGNESIUM, DISSOLVED	10.8	EPA 200.7
MANGANESE, TOTAL (ug/l)	27	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	28	EPA 200.7
NITRATE-NITROGEN	19.6	EPA 300

T Please indicate detection limit if analyte is not detected.

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGSMIW

Sample Date

08/17/2011

1. Inorganics, continued (Enter all data in mg/l except as noted)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
NITRITE-NITROGEN	0.1 ND	EPA 300
pH-FIELD (SU)	6.22	FIELD
pH-LAB (SU)	5.91	SM 4500B
POTASSIUM, TOTAL	1.7	EPA 200.7
POTASSIUM, DISSOLVED	1.9	EPA 200.7
SODIUM, TOTAL	8.1	EPA 200.7
SODIUM, DISSOLVED	8.8	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	227	FIELD
SPEC. COND., LAB (umhos/cm)	251	EPA 120.1
SULFATE	1 ND	EPA 300
ALKALINITY	6	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	176	SM 2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM 5310B
TOTAL PHENOLICS (ug/l)	10 ND	EPA 420.4
TURBIDITY (NTU)	0.1	SM 2130B

T Please indicate detection limit if analyte is not detected.

**FORM 52**  
**MUNICIPAL WASTE LANDFILL**  
**PRIVATE WATER SUPPLY**  
**QUARTERLY WATER QUALITY ANALYSES**

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGSMIW

Sample Date

08/17/2011

## 2. Organics (Enter all data in ug/l)

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
BENZENE	0.5 ND	EPA 524.2
1,2-DIBROMOETHANE (EDB) (ETHYLENE	0.5 ND	EPA 524.2
1,1-DICHLOROETHANE	0.5 ND	EPA 524.2
1,1-DICHLOROETHENE	0.5 ND	EPA 524.2
1,2-DICHLOROETHANE	0.5 ND	EPA 524.2
cis 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
trans 1,2-DICHLOROETHENE	0.5 ND	EPA 524.2
ETHYLBENZENE	0.5 ND	EPA 524.2
METHYLENE CHLORIDE	0.5 ND	EPA 524.2
TETRACHLOROETHENE	0.5 ND	EPA 524.2
TOLUENE	0.5 ND	EPA 524.2
1,1,1-TRICHLOROETHANE	0.5 ND	EPA 524.2
TRICHLOROETHENE	0.5 ND	EPA 524.2
TRICHLOROFLUOROMETHANE	0.5 ND	EPA 524.2
VINYL CHLORIDE	0.5 ND	EPA 524.2
XYLENES (TOTAL)	1.5 ND	EPA 524.2

T Please indicate detection limit if analyte is not detected.