



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



December 30, 2009

Mr. Tom Miller; 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 Mr. Miller:

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 Fourth Quarter 2009 sampling event in electronic format (per the CD containing the file CWCG1109.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, three (3) 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.

(C) Water Quality Indicators

- All monitored parameters at the ten (10) sampled locations were generally typical of historical and/or seasonal results. You will recall that last quarter, location CWCGRAW had a nitrate result of "not detected" and I indicated this location historically has nitrate levels of approximately 20 mg/l. This quarter, the result was reported as 15.5 mg/l. Additionally, potassium was reported as 11.8 mg/l with a historic average of 2.8 mg/l. This quarter, potassium was noted as 3.1 mg/l. As indicated, both parameters have returned to more typical values. I will continue to review future results closely.

LCSWMA will continue to sample, review and report this information on a quarterly basis with our next sampling currently scheduled to occur in February 2010. 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: Jim Warner, Bob Zorbaugh, Bob Eshbach
John Spang (PaDEP w/Forms 52)
Ed Rawski (PaDEP)
Randy Weiss (PaDEP)



Date Prepared/Revised 12/30/2009
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: <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)	11/17/2009 Sample Collection Time: 11:50 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	11/27/2009
Were any holding times exceeded?:	Yes <input checked="" type="checkbox"/> No <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 CWCGBCKW

Sample Date

11/17/2009

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	177	SM 2321
CALCIUM, TOTAL	0.78	EPA 200.7
CALCIUM, DISSOLVED	0.75	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	106	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	60 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	0.16	EPA 200.7
MAGNESIUM, DISSOLVED	0.16	EPA 200.7
MANGANESE, TOTAL (ug/l)	5 ND	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	5 ND	EPA 200.7
NITRATE-NITROGEN	9	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 CWCGBCKW

Sample Date

11/17/2009

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)	7.16	FIELD
pH-LAB (SU)	6.84	SM 4500B
POTASSIUM, TOTAL	2.5	EPA 200.7
POTASSIUM, DISSOLVED	2	EPA 200.7
SODIUM, TOTAL	142	EPA 200.7
SODIUM, DISSOLVED	126	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	667	FIELD
SPEC. COND., LAB (umhos/cm)	697	EPA 120.1
SULFATE	8.2	EPA 300
ALKALINITY	177	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	397	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 CWCGBCKW

Sample Date

11/17/2009

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 12/30/2009
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:	BRIAN BYERS
Address:	3088 River Road
Phone No.:	
Sampling Point:	Latitude: 39° 57' 21" Longitude: 76° 26' 7.1"
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)	11/17/2009 Sample Collection Time: 12:28 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	11/27/2009
Were any holding times exceeded?:	Yes <input checked="" type="checkbox"/> No <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 CWCGFELW

Sample Date

11/17/2009

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	31	EPA 200.7
CALCIUM, DISSOLVED	28.6	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	49.7	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	60 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	10.6	EPA 200.7
MAGNESIUM, DISSOLVED	10.1	EPA 200.7
MANGANESE, TOTAL (ug/l)	67	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	64	EPA 200.7
NITRATE-NITROGEN	13.7	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 CWCGFELW

Sample Date

11/17/2009

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)	5.8	SM 4500B
POTASSIUM, TOTAL	2.8	EPA 200.7
POTASSIUM, DISSOLVED	2.5	EPA 200.7
SODIUM, TOTAL	23.7	EPA 200.7
SODIUM, DISSOLVED	21.6	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	354	FIELD
SPEC. COND., LAB (umhos/cm)	378	EPA 120.1
SULFATE	28.7	EPA 300
ALKALINITY	23	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	239	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 CWCGFELW

Sample Date

11/17/2009

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 12/30/2009
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**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:	MRS. VERNA M. GRAVER
Address:	3060 River Road
Phone No.:	
Sampling Point:	Latitude: 39° 57' 27.4" Longitude: 76° 26' 10.7"
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)	11/17/2009 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	11/25/2009
Were any holding times exceeded?:	Yes <input checked="" type="checkbox"/> No <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

11/17/2009

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	30	SM 2321
CALCIUM, TOTAL	12.8	EPA 200.7
CALCIUM, DISSOLVED	12.1	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	17.5	EPA 300
FLUORIDE	0.1 ND	EPA 300
IRON, TOTAL (ug/l)	60 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	14.8	EPA 200.7
MAGNESIUM, DISSOLVED	14.7	EPA 200.7
MANGANESE, TOTAL (ug/l)	160	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	150	EPA 200.7
NITRATE-NITROGEN	15.5	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 CWCGGRAW

Sample Date

11/17/2009

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)	6.84	FIELD
pH-LAB (SU)	6.26	SM 4500B
POTASSIUM, TOTAL	3.4	EPA 200.7
POTASSIUM, DISSOLVED	3.1	EPA 200.7
SODIUM, TOTAL	9.4	EPA 200.7
SODIUM, DISSOLVED	8.8	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	244	FIELD
SPEC. COND., LAB (umhos/cm)	252	EPA 120.1
SULFATE	11.1	EPA 300
ALKALINITY	30	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	148	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 CWCGRAW

Sample Date

11/17/2009

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.



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

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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
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:	DAVID C. & PATRICIA S. HILL
Address:	3106 River Road
Phone No.:	
Sampling Point:	Latitude: 39° 57' 17.27" Longitude: 76° 26' 5.6"
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)	11/17/2009 Sample Collection Time: 1:05 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	11/27/2009
Were any holding times exceeded?:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, please explain in comments field.
Comments:	

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MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGHILW

Sample Date

11/17/2009

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	12.2	EPA 200.7
CALCIUM, DISSOLVED	11.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	38.6	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	100	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	7.7	EPA 200.7
MAGNESIUM, DISSOLVED	7.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	20	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	18	EPA 200.7
NITRATE-NITROGEN	14.6	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 CWCQHILW

Sample Date

11/17/2009

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)	6.51	FIELD
pH-LAB (SU)	5.7	SM 4500B
POTASSIUM, TOTAL	1.6	EPA 200.7
POTASSIUM, DISSOLVED	1.5	EPA 200.7
SODIUM, TOTAL	28.6	EPA 200.7
SODIUM, DISSOLVED	27.5	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	281	FIELD
SPEC. COND., LAB (umhos/cm)	285	EPA 120.1
SULFATE	5.9	EPA 300
ALKALINITY	12	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	169	SM 2540C
TOC (TOTAL ORGANIC CARBON)	1 ND	SM 5310B
TOTAL PHENOLICS (ug/l)	10 ND	EPA 420.4
TURBIDITY (NTU)	0.15	SM 2130B

T Please indicate detection limit if analyte is not detected.

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MUNICIPAL WASTE LANDFILL
PRIVATE WATER SUPPLY
QUARTERLY WATER QUALITY ANALYSES

Facility I.D. Number

101389

Monitoring Point I.D. No.

PS CWCGHILW

Sample Date

11/17/2009

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 12/30/2009
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: <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)	11/17/2009 Sample Collection Time: 11:01 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	11/27/2009
Were any holding times exceeded?:	Yes <input checked="" type="checkbox"/> No <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 CWCGKIRW
Sample Date	11/17/2009

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	15	SM 2321
CALCIUM, TOTAL	17.8	EPA 200.7
CALCIUM, DISSOLVED	16.7	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	32	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	60 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	9.2	EPA 200.7
MAGNESIUM, DISSOLVED	9.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	51	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	29	EPA 200.7
NITRATE-NITROGEN	12.1	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

11/17/2009

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)	6.14	FIELD
pH-LAB (SU)	5.63	SM 4500B
POTASSIUM, TOTAL	1.8	EPA 200.7
POTASSIUM, DISSOLVED	1.7	EPA 200.7
SODIUM, TOTAL	13.9	EPA 200.7
SODIUM, DISSOLVED	12.9	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	247	FIELD
SPEC. COND., LAB (umhos/cm)	259	EPA 120.1
SULFATE	9.7	EPA 300
ALKALINITY	15	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	177	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 CWCGKIRW

Sample Date

11/17/2009

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 12/30/2009
DEP USE ONLY
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**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: GERALD E., SR & 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 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) 11/17/2009 Sample Collection Time: 11:26 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 11/27/2009
 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	11/17/2009

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	114	SM 2321
CALCIUM, TOTAL	41.7	EPA 200.7
CALCIUM, DISSOLVED	38.2	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	17.8	EPA 300
FLUORIDE	0.1 ND	EPA 300
IRON, TOTAL (ug/l)	60 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	19	EPA 200.7
MAGNESIUM, DISSOLVED	18.1	EPA 200.7
MANGANESE, TOTAL (ug/l)	4.9	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	6.4	EPA 200.7
NITRATE-NITROGEN	19.9	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

11/17/2009

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)	7.03	FIELD
pH-LAB (SU)	6.91	SM 4500B
POTASSIUM, TOTAL	2.1	EPA 200.7
POTASSIUM, DISSOLVED	1.9	EPA 200.7
SODIUM, TOTAL	7.8	EPA 200.7
SODIUM, DISSOLVED	7.1	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	388	FIELD
SPEC. COND., LAB (umhos/cm)	400	EPA 120.1
SULFATE	1 ND	EPA 300
ALKALINITY	114	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	205	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 CWCGMILW

Sample Date

11/17/2009

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
 12/30/2009

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:	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: <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)	11/17/2009 Sample Collection Time: 11:40 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	11/27/2009
Were any holding times exceeded?:	Yes <input checked="" type="checkbox"/> No <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 CWCGSCHW

Sample Date

11/17/2009

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	10	SM 2321
CALCIUM, TOTAL	13.6	EPA 200.7
CALCIUM, DISSOLVED	13.4	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	36.2	EPA 300
FLUORIDE	0.2 ND	EPA 300
IRON, TOTAL (ug/l)	60 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	7.8	EPA 200.7
MAGNESIUM, DISSOLVED	8.2	EPA 200.7
MANGANESE, TOTAL (ug/l)	150	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	140	EPA 200.7
NITRATE-NITROGEN	10.2	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

11/17/2009

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)	5.98	FIELD
pH-LAB (SU)	5.59	SM 4500B
POTASSIUM, TOTAL	2.6	EPA 200.7
POTASSIUM, DISSOLVED	2.6	EPA 200.7
SODIUM, TOTAL	16.1	EPA 200.7
SODIUM, DISSOLVED	15.6	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	244	FIELD
SPEC. COND., LAB (umhos/cm)	254	EPA 120.1
SULFATE	11.7	EPA 300
ALKALINITY	10	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	165	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

11/17/2009

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
 12/30/2009

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: 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: Land Surface TOC

Casing Stick Up: _____ ft. Elevation of Water Level: _____ ft./MSL

Total Well Depth: _____ ft.

Sampling Depth: _____ ft. Sampling Method: Pumped BailedWell Purged: Yes No Well Volumes Purged: _____Sample Field Filtered (must be 0.45 micron): Yes No

Sample Date:(mm/dd/yy) 11/17/2009

Sample Collection Time: 10:36 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

11/25/2009

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 CWCGSMIW

Sample Date

11/17/2009

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

PARAMETER	VALUE	ANALYSIS METHOD NUMBER
AMMONIA-NITROGEN	0.1 ND	SM 4500D
BICARBONATE	13	SM 2321
CALCIUM, TOTAL	17.5	EPA 200.7
CALCIUM, DISSOLVED	15.1	EPA 200.7
COD (CHEMICAL OXYGEN DEMAND)	15 ND	EPA 410.4
CHLORIDE	16.4	EPA 300
FLUORIDE	0.1 ND	EPA 300
IRON, TOTAL (ug/l)	60 ND	EPA 200.7
IRON, DISSOLVED (ug/l)	60 ND	EPA 200.7
MAGNESIUM, TOTAL	11.3	EPA 200.7
MAGNESIUM, DISSOLVED	10.8	EPA 200.7
MANGANESE, TOTAL (ug/l)	24	EPA 200.7
MANGANESE, DISSOLVED (ug/l)	21	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

11/17/2009

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)	6.64	FIELD
pH-LAB (SU)	5.88	SM 4500B
POTASSIUM, TOTAL	2	EPA 200.7
POTASSIUM, DISSOLVED	1.7	EPA 200.7
SODIUM, TOTAL	10.5	EPA 200.7
SODIUM, DISSOLVED	9.1	EPA 200.7
SPEC. COND., FIELD (umhos/cm)	239	FIELD
SPEC. COND., LAB (umhos/cm)	249	EPA 120.1
SULFATE	1 ND	EPA 300
ALKALINITY	13	SM 2320B
TDS (TOTAL DISSOLVED SOLIDS)	166	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 CWCGSMIW

Sample Date

11/17/2009

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.