2001 Comprehensive Ground Water Monitoring Evaluation (CME)

Boyertown Sanitary Landfill
Douglass Township, Montgomery County

Pa. D.E.P., Southeast Regional Office
Waste Management Program
Suite 6010 Lee Park
555 North Lane Conshohocken, PA 19428

Facility Location:

Boyertown Sanitary Landfill is located on Merkel Road, in Douglass Township, Montgomery County. A facility location map is provided as **Figure 1**. This map is excerpted from the U.S. Geological Survey 7.5 Minute Topographic Series, **Sassamansville Quadrangle.**

Narrative:

The Boyertown Landfill is former municipal waste disposal facility. During its operating period the landfill accepted some hazardous wastes. Currently the landfill owner, Warren Frame, has been submitting quarterly groundwater monitoring data from nine (9) monitoring wells on site.

Groundwater samples are now being collected on a quarterly basis. The results from the CME sampling event are consistent with the most recent sampling results. Well AMW-1 (Garage Well) had TCE detected at 2 ppb (Blue Marsh Labs) and 16.1 ppb (DEP Lab). The TCE is not associated with landfill activities. The garage was used as an equipment wash area before the landfill existed. Degreasers were used to clean engines and washed onto the ground leading to the TCE in the groundwater. The TCE concentrations have declined significantly since the early 80's.

Mr. Frame was once again informed that the groundwater sampling results should be submitted along with the t-tests as outlined in 40 CFR 265.93. This information was not submitted with the landfills analysis.

A filtered metal sample was not obtained during this sampling event. The filtered metal sample was submitted as a non-filtered duplicate metal sample for each sampling point. All metal results from the DEP lab are total metals.

A new housing development was built adjacent to the landfill property. During the construction process, soil was removed from around the landfill area. A seep was discovered in the lawn of one of the new houses at 205 Hawthorne Avenue. The Department and the home builder collected samples of the liquid flowing from the seep. The sample results revealed organics within the liquid (see Appendix C). All concentrations were below the PADEP Act II levels.

In order to confirm that the seep originated on the landfill property a trench was excavated between the landfill and seep area. The trench was located on the landfill property. Groundwater was encountered at about 8 feet. Samples of the groundwater confirmed that the seep was originating on the landfill property (see Appendix C).

Currently the seep is being further investigated/remediated by the PADEPs Hazardous Sites Cleanup Program.

CME Worksheet:

A completed Comprehensive Ground Water Monitoring Evaluation Worksheet is provided as **Appendix A**.

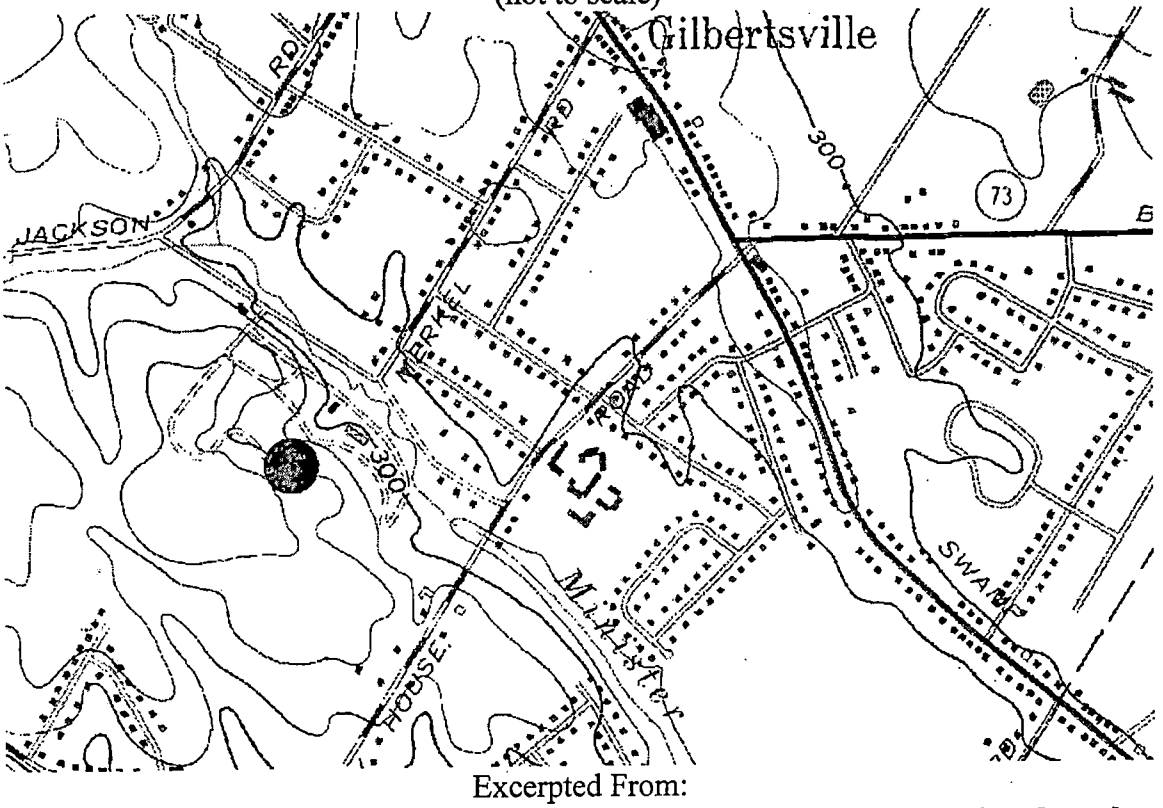
Analytical Results:

Groundwater sample results are provided as **Appendix B.**

Seep sampling results are provided as **Appendix C.**

Figure I (Facility Location Map)

Boyertown Sanitary Landfill
Douglass Township, Montgomery County
(not to scale)



Excerpted From:
U.S. Geological Survey 7.5 Minute Topographic Series, **Sassamansville Quadrangle**
(large shaded circle marks approximate location of facility)

Appendix A (Comprehensive Ground Water Monitoring Evaluation Worksheet)

APPENDIX A

COMPREHENSIVE GROUND-WATER MONITORING EVALUATION WORKSHEET

The following worksheets have been designed to assist the enforcement officer/ technical reviewer in evaluating theground-water monitoring system an owner/operator uses to collect and analyze samples of ground water. The focus of the worksheets is technical adequacy as it relates to obtaining and analyzing representative samples of ground water. The basis of the worksheets is the final RCRA Ground Water Monitoring Technical Enforcement Guidance Document which describes in detail the aspects of ground-water monitoring which EPA deems essential to meet the goals of RCRA. Appendix A is not a regulatory checklist. Specific technical deficiencies in the monitoring system can, however, be related to the regulations as illustrated in Figure 4.3 taken from the RCRA Ground-Water Monitoring Compliance Order Guide (COG) (included at the end of the appendix). The enforcement officer, in developing an enforcement order, should relate the technical assessment from the worksheets to the regulations using Figure 4.3 from the COG as a guide.

Comprehensive Ground-Water Monitoring Evaluation	Y/N
I. Office Evaluation Technical Evaluation of the Design of the Ground-Water Monitoring System	
A. Review of Relevant Documents	
1. What documents were obtained prior to conducting the inspection:	
a. RCRA Part A permit application?	Y
b. RCRA Part B permit application?	Y
c. Correspondence between the owner/operator and appropriate agencies or citizen's groups?	Y
d. Previously conducted facility inspection reports?	Y
e. Facility's contractor reports?	Y
f. Regional hydrogeologic, geologic, or soil reports?	Y
g. The facility's Sampling and Analysis Plan?	Y
h. Ground-water Assessment Program Outline (or Plan, if thefacility is in assessment monitoring)?	Y
i. Other (specify) reports, letters, sampling results from adjacent properties	Y

	Y/N
B. Evaluation of the Owner/Operator's Hydrogeologic Assessment	
1. Did the owner/operator use the following direct techniques in the hydrogeologic assessment:	
a. Logs of the soil borings/rock corings (documented by a professional geologist, soil scientist, or geotechnical engineer)?	Y
b. Materials tests (e.g., grain size analyses, standard penetration tests, etc.)?	Y
c. Piezometer installation for water level measurments at different depths?d. Slug tests?	N/N
e. Pump tests?	Y
f. Geochemical analyses of soil samples?	Y
g. Other (specify) (e.g., hydrochemical diagrams and wash analysis)	—
2. Did the owner/operator use the following indirect technique to supplement direct techniques data:	
a. Geophysical well logs?	N/A
b. Tracer studies?	N/A
c. Resistivity and/or electromagnetic conductance?	N/A
d. Seismic Survey?	N/A
e. Hydraulic conductivity measurements of cores?	N/A
f. Aerial photography?	N/A
g. Ground penetrating radar?	N/A
h. Other (specify)	N/A
3. Did the owner/operator document and present the raw data from the site hydrogeologic assessment?	Y
4. Did the owner/operator document methods (criteria) used to correlate and analyze the information?	Y
5. The owner/operator prepare the following:	
a. Narrative description of geology?	Y
b. Geologic cross sections?	N
c. Geologic and soil maps?	N
d. Boring/coring logs?	Y
e. Structure contour maps of the differing water bearing zones and confining layer?	N
f. Narrative description and calculation of ground-water flows?	Y

	Y/N
g. Water table/potentiometric map?	Y
h. Hydrologic cross sections?	N
6. Did the owner/operator obtain a regional map of the area and delineate the facility?	Y
If yes, does this map illustrate: a. Surficial geology features?	N
b. Streams, rivers, lakes, or wetlands near the facility?	Y
c. Discharging or recharging wells near the facility?	N
7. Did the owner/operator obtain a regional hydrogeologic map?	Y
If yes, does this hydrogeologic map indicate: a. Major areas of recharge/discharge?	Y
b. Regional ground-water flow direction?	Y
c. Potentiometric contours which are consistent with observed water level elevations?	Y
8. Did the owner/operator prepare a facility site map?	Y
If yes, does the site map show: a. Regulated units of the facility (e.g., landfill areas,impoundments)?	Y
b. Any seeps, springs, streams, ponds, or wetlands?	Y
c. Location of monitoring wells, soil borings, or test pits?	Y
d. How many regulated units does the facility have? ONE	1
If more than one regulated unit then, • Does the waste management area encompass all regulated units?	N/A
• Is a waste management area delineated for each regulated unit?	N/A
C. Characterization of Subsurface Geology of Site 1. Soil boring/test pit program:	
a. Were the soil borings/test pits performed under thesupervision of a qualified professional?	Y
b. Did the owner/operator provide documentation for selecting the spacing for borings?	Y
c. Were the borings drilled to the depth of the first confining unit below the uppermost zone of saturation or ten feet into bedrock?	Y
d. Indicate the method(s) of drilling:	

	Y/N
Auger (hollow or solid stem) ____ Mud rotary ____ Reverse rotary ✓ Cable tool ____ Jetting ____ Other (specify) ____	
e. Were continuous sample corings taken?	Y
f. How were the samples obtained (checked method[s]) • Split spoon ✓ • Shelby tube, or similar ____ • Rock coring ✓ • Ditch sampling ____ • Other (explain) ____	
g. Were the continuous sample corings logged by a qualified professional in geology?	Y
h. Does the field boring log include the following information: • Hole name/number? Some data provided	Y
• Date started and finished?	Y
• Driller's name?	Y
• Hole location (i.e., map and elevation)?	Y
• Drill rig type and bit/auger size?	Y
• Gross petrography (e.g., rock type) of each geologic unit?	Y
• Gross mineralogy of each geologic unit?	Y
• Gross structural interpretation of each geologic unit and structural features (e.g., fractures, gouge material, solution channels, buried streams or valleys, identification of depositional material)?	Y
• Development of soil zones and vertical extent and description of soil type?	Y
• Depth of water bearing unit(s) and vertical extent of each?	Y
• Depth and reason for termination of borehole?	Y
• Depth and location of any contaminant encountered in borehole?	N/A
• Sample location/number?	Y
• Percent sample recovery?	Y
• Narrative descriptions of: —Geologic observations?	Y
—Drilling observations?	Y
i. Were the following analytical tests performedon the core samples: • Mineralogy (e.g., microscopic tests and x-ray diffraction)?	N
• Petrographic analysis: —degree of crystallinity and cementation of matrix?	Y
—degree of sorting, size fraction (i.e., sieving), textural variations?	N
—rock type(s)?	Y

	Y/N
—soil type?	N
—approximate bulk geochemistry?	N
—existence of microstructures that may effect or indicate fluid flow?	Y
• Falling head tests?	Y
• Static head tests?	Y
• Settling measurements?	N
• Centrifuge tests?	N
• Column drawings?	N
D. Verification of Subsurface Geological Data	
1. Has the owner/operator used indirect geophysical methods to supplement geological conditions between borehole locations?	N
2. Do the number of borings and analytical data indicate that the confining layer displays a low enough permeability to impede the migration of contaminants to any stratigraphically low water-bearing units?	Y
3. Is the confining layer laterally continuous across the entire site? not enough info	N
4. Did the owner/operator consider the chemical compatibility of the site-specific waste types and the geologic materials of the confining layer?	Y
5. Did the geologic assessment address or provide means for resolution of any information gaps of geologic data?	N
6. Do the laboratory data corroborate the field data for petrography?	Y
7. Do the laboratory data corroborate the field data for mineralogy and subsurface geochemistry?	N/A
E. Presentation of Geologic Data	
1. Did the owner/operator present geologic cross sections of the site?	Y
2. Do cross sections:	
a. identify the types and characteristics of the geologic materials present?	Y
b. define the contact zones between different geologic materials?	Y
c. note the zones of high permeability or fracture?	Y
d. give detailed borehole information including:	N

	Y/N
• location of borehole?	N
• depth of termination?	N
• location of screen (if applicable)?	N
• depth of zone(s) of saturation?	N
• backfill procedure?	N
3. Did the owner/operator provide a topographic map which was constructed by a licensed surveyor?	Y
4. Does the topographic map provide: a. contours at a maximum interval of two-feet?	Y
b. locations and illustrations of man-made features (e.g., parking lots, factory buildings, drainage ditches, storm drain, pipelines, etc.)?	Y
c. descriptions of nearby water bodies?	Y
d. descriptions of off-site wells?	N/A
e. site boundaries?	Y
f. individual RCRA units?	Y
g. delineation of the waste management area(s)?	Y
h. well and boring locations?	Y
5. Did the owner/operator provide an aerial photograph depicting the site and adjacent off-site features?	N
6. Does the photograph clearly show surface water bodies, adjacent municipalities, and residences and are these clearly labelled?	N/A
F. Identification of Ground-Water Flowpaths 1. Ground-water flow direction a. Was the well casing height measured by a licensed surveyor to the nearest 0.01 feet?	Y
b. Were the well water level measurements taken within a 24 hour period?	Y
c. Were the well water level measurements taken to the nearest 0.01 feet?	Y
d. Were the well water levels allowed to stabilize after construction and development for a minimum of 24 hours prior to measurements?	Y
e. Was the water level information obtained from (check appropriate one): • multiple piezometers placed in single borehole? ____ • vertically nested piezometers in closely spaced separate ____ • boreholes? ____ • monitoring wells? ✓	

	Y/N
f. Did the owner/operator provide construction details for the piezometers?	N/A
g. How were the static water levels measured (check method[s]). • Electric water-sounder ✓ • Wetted tape ___ • Air line ___ • Other (explain) ___	
h. Was the well water level measured in wells with equivalent screened intervals at an equivalent depth below the saturated zone?	Y
i. Has the owner/operator provided a site water table (potentiometric) contour map?	Y
If yes, • Do the potentiometric contours appear logical and accurate based on topography and presented data? (Consult water level data)	Y
• Are ground-water flow-lines indicated?	Y
• Are static water levels shown?	Y
• Can hydraulic gradients be estimated?	Y
j. Did the owner/operator develop hydrologic cross sections of the vertical flow component across the site using measurements from all wells?	N
k. Do the owner/operator's flow nets include: • piezometer locations?	N
• depth of screening?	N
• width of screening?	N
• measurements of water levels from all wells and piezometers?	N
2. Seasonal and temporal fluctuations in ground-water a. Do fluctuations in static water levels occur? If yes, are the fluctuations caused by any of the following:	Y
—Off-site well pumping	N
—Tidal processes or other intermittent natural variations (e.g., river stage, etc.)	N
—On-site well pumping	N
—Off-site, on-site construction or changing land use patterns	N
—Deep well injection	N
—Seasonal variations	Y
—Other (specify) ___	N
b. Has the owner/operator documented sources and patterns that contribute to or affect the ground-water patterns below the waste management?	Y
c. Do water level fluctuations alter the general ground-water gradients and flow directions?	Y
d. Based on water level data, do any head differentials occur that may indicate a vertical flow component in the saturated zone?	Y

	Y/N
e. Did the owner/operator implement means for gauging long term effects on water movement that may result from on-site or off-site construction or changes in land-use patterns?	N
3. Hydraulic conductivity a. How were hydraulic conductivities of the subsurface materials determined?	
• Single-well tests (slug tests)?	N
• Multiple-well tests (pump tests)	Y
• Other (specify) _____	N
b. If single-well tests were conducted, was it done by: • Adding or removing a known volume of water?	N/A
• Pressurizing well casing?	N/A
c. If single well tests were conducted in a highly permeable formation, were pressure transducers and high-speed recording equipment used to record the rapidly changing water levels?	N/A
d. Since single well tests only measure hydraulic conductivity in a limited area, were enough tests run to ensure a representative measure of conductivity in each hydrogeologic unit?	N/A
e. Is the owner/operator's slug test data (if applicable) consistent with existing geologic information (e.g., boring logs)?	N/A
f. Were other hydraulic conductivity properties determined?	Y
g. If yes, provide any of the following data, if available: • Transmissivity ____ • Storage coefficient ____ • Leakage ____ • Permeability ____ • Porosity ____ • Specific capacity* ✓ .05 – .21 gpm/ft *not available for all wells • Other (specify) _____	
4. Identification of the uppermost aquifer a. Has the extent of the uppermost saturated zone (aquifer) in the facility area been defined? If yes,	Y
• Are soil boring/test pit logs included?	N
• Are geologic cross-sections included?	N
b. Is there evidence of confining (competent, unfractured, continuous, and low permeability) layers beneath the site? If yes,	Y
• how was continuity demonstrated? regional petrography	
c. What is hydraulic conductivity of the confining unit (if present)? CM/Sec How was it determined? limited data 5×10^{-7} cm/s to 6.1×10^{-7} cm/s	

	Y/N
d. Does potential for other hydraulic communication exist (e.g., lateral incontinuity between geologic units, facies changes, fracture zones, cross cutting structures, or chemical corrosion/alteration of geologic units by leachage? If yes or no, what is the rationale? Regional fractures in the Brunswick Formation	Y
G. Office Evaluation of the Facility's Ground-Water Monitoring System—Monitoring Well Design and Construction: These questions should be answered for each different well design present at the facility. 1. Drilling Methods a. What drilling method was used for the well? • Hollow-stem auger ☐ • Solid-stem auger ☐ • Mud rotary ☑ • Air rotary ☑ • Reverse rotary ☐ • Cable tool ☐ • Jetting ☐ • Air drill w/ casing hammer ☐ • Other (specify) _____	
b. Were any cutting fluids (including water) or additives used during drilling? If yes, specify: • Type of drilling fluid _____ • Source of water used _____ • Foam _____ • Polymers _____ • Other _____	N/A
c. Was the cutting fluid, or additive, identified?	N/A
d. Was the drilling equipment steam-cleaned prior to drilling the well? • Other methods _____	Y
e. Was compressed air used during drilling? If yes, • was the air filtered to remove oil?	Y/Y
f. Did the owner/operator document procedure for establishing the potentiometric surface? If yes, • how was the location established?	N
g. Formation samples	

	Y/N
• Were formation samples collected initially during drilling?	Y
• Were any cores taken continuous?	Y
• If not, at what interval were samples taken?	—
• How were the samples obtained? ✓ Split spoon — Shelby tube ✓ Core drill — Other (specify)	
• Identify if any physical and/or chemical tests were performed on the formation samples (specify) _____ _____ _____	N/A
2. Monitoring Well Construction Materials a. Identify construction materials (by number) and diameters (ID/OD) Material / Diameter • Primary Casing: PVC / 4 inch • Secondary or outside casing (doubleconstruction): Steel / 6 inch • Screen: PVC / 4 inch	
b. How are the sections of casing and screen connected? • Pipe sections threaded	N/A
• Couplings (friction) with adhesive or solvent	N/A
• Couplings (friction) with retainer screws	Y
• Other (specify)	N/A
c. Were the materials steam-cleaned prior to installation? • If no, how were the materials cleaned? _____	Y
3. Well Intake Design and Well Development a. Was a well intake screen installed?	Y
• What is the length of the screen for the well? 10 feet into first water bearing zone	
• Is the screen manufactured?	Y
b. Was a filter pack installed?	Y
• What kind of filter pack was employed? clean quartz sand	
• Is the filter pack compatible with formationmaterials?	Y
• How was the filter pack installed? dropped into well and tamped	

	Y/N
• What are the dimensions of the filter pack? _____	N/A
• Has a turbidity measurement of the well water ever been made?	Y
• Have the filter pack and screen been designed for the insitu materials? _____	Y
c. Well development • Was the well developed?	Y
• What technique was used for well development? —Surge block —Bailer —✓Air surging —✓Water pumping —Other (specify) _____	
4. Annular Space Seals a. What is the annular space in the saturated zone directlyabove the filter pack filled with: —✓Sodium bentonite (specify type and grit) granular pellets —Cement (specify neat or concrete) —Other (specify)	
b. Was the seal installed by: —✓Dropping material down the hole and tamping —Dropping material down the inside of hollow-stem auger —Tremie pipe method —Other (specify)	
c. Was a different seal used in the unsaturated zone? If yes,	N
• Was this seal made with? —Sodium bentonite (specify type and grit) —Cement (specify neat or concrete)- Other (specify)	N/A
• Was this seal installed by? —Dropping material down the hole and tamping —Dropping material down the inside of hollow stem auger —Other (specify)	N/A
d. Is the upper portion of the borehole sealed with a concrete cap to prevent infiltration from the surface?	Y
e. Is the well fitted with an above-ground protectivedevice and bumper guards?	N
f. Has the protective cover been installed with locks to prevent tampering?	Y

	Y/N
H. Evaluation of the Facility's Detection Monitoring Program	
1. Placement of Downgradient Detection Monitoring Wells	
a. Are the ground-water monitoring wells or clusters located immediately adjacent to the waste management area?	Y
b. How far apart are the detection monitoring wells? 100 ft - 1500 ft	
c. Does the owner/operator provide a rationale for thelocation of each monitoring well or cluster?	Y
d. Does the owner/operator identified the well screenlengths of each monitoring well or clusters?	Y
e. Does the owner/operator provide an explanation for the well screen lengths of each monitoring well orcluster?	N
f. Do the actual locations of monitoring wells orclusters correspond to those identified by the owner/operator?	Y
2. Placement of Upgradient Monitoring Wells	
a. Has the owner/operator documented the location ofeach upgradient monitoring well or cluster?	Y
b. Does the owner/operator provide an explanation forthe location(s) of the upgradient monitoring wells?	Y
c. What length screen has the owner/operator employed inthe background monitoring well(s)? 10 ft into first water bearing zone	Y
d. Does the owner/operator provide an explanation for the screen length(s) chosen? account for confined / unconfined aquifers	Y
e. Does the actual location of each background monitoring well or cluster correspond to that identified by the owner/operator?	Y
I. Office Evaluation of the Facility's Assessment Monitoring Program	
1. Does the assessment plan specify:	
a. The number, location, and depth of wells?	Y
b. The rationale for their placement and identify the basis that will be used to select subsequent sampling locations and depths in later assessment phases?	Y
2. Does the list of monitoring parameters include all hazardous waste constituents from the facility?	Y

	Y/N
a. Does the water quality parameter list include other important indicators not classified as hazardous waste constituents?	Y
b. Does the owner/operator provide documentation for he listed wastes which are not included?	N/A
3. Does the owner/operator's assessment plan specify the procedures to be used to determine the rate of constituent migration in the ground-water?	N
4. Has the owner/operator specified a schedule of implementation in the assessment plan?	N
5. Have the assessment monitoring objectives been clearly defined in the assessment plan?	Y
a. Does the plan include analysis and/or re-evaluation to determine if significant contamination has occurredin any of the detection monitoring wells?	Y
b. Does the plan provide for a comprehensive program of investigation to fully characterize the rate and extent of contaminant migration from the facility?	Y
c. Does the plan call for determining the concentrations of hazardous wastes and hazardous waste constituentsin the ground water?	Y
d. Does the plan employ a quarterly monitoring program?	Y
6. Does the assessment plan identify the investigatory methods that will be used in the assessment phase?	Y
a. Is the role of each method in the evaluation fully described?	N
b. Does the plan provide sufficient descriptions of the direct methods to be used?	N
c. Does the plan provide sufficient descriptions of the indirect methods to be used?	N
d. Will the method contribute to the further characterization of the contaminant movement?	Y
7. Are the investigatory techniques utilized in the assessment program based on direct methods?	Y
a. Does the assessment approach incorporate indirect methods to further support direct methods?	N
b. Will the planned methods called for in the assessment approach ultimately meet performance standards for assessment monitoring?	N
c. Are the procedures well defined?	Y
d. Does the approach provide for monitoring wells similar in design and construction as the detectionmonitoring wells?	Y

	Y/N
e. Does the approach employ taking samples during drilling or collecting core samples for further analysis?	N
8. Are the indirect methods to be used based on reliable and accepted geophysical techniques?	N/A
a. Are they capable of detecting subsurface changesresulting from contaminant migration at the site?	N/A
b. Is the measurement at an appropriate level of sensitivity to detect ground-water quality changes at the site?	Y
c. Is the method appropriate considering the nature of the subsurface materials?	Y
d. Does the approach consider the limitations of these methods?	Y
e. Will the extent of contamination and constituent concentration be based on direct methods and sound engineering judgment? (Using indirect methods tofurther substantiate the findings.)	Y
9. Does the assessment approach incorporate any mathe-matical modeling to predict contaminant movement?	N
a. Will site specific measurements be utilized toaccurately portray the subsurface?	not Known
b. Will the derived data be reliable?	not Known
c. Have the assumptions been identified?	not Known
d. Have the physical and chemical properties of the site-specific wastes and hazardous waste constituentsbeen identified?	Y
J. Conclusions	
1. Subsurface geology	
a. Has sufficient data been collected to adequately define petrography and petrographic variation?	Y
b. Has the subsurface geochemistry been adequately defined?	Y
c. Was the boring/coring program adequate to definesubsurface geologic variation?	Y
d. Was the owner/operator's narrative description complete and accurate in its interpretation of the data?	Y
e. Does the geologic assessment address or provide means to resolve any information gaps?	Y
2. Ground-water flowpaths	
a. Did the owner/operator adequately establish the hori-zontal and vertical components of ground-water flow?	Y

	Y/N
b. Were appropriate methods used to establish ground-water flowpaths?	Y
c. Did the owner/operator provide accurate documentation?	N
d. Are the potentiometric surface measurements valid?	N
e. Did the owner/operator adequately consider the seasonal and temporal effects on the ground-water?	N
f. Were sufficient hydraulic conductivity tests performed to document lateral and vertical variationin hydraulic conductivity in the entire hydrogeologic subsurface below the site?	N
3. Uppermost Aquifer a. Did the owner/operator adequately define the upper-most aquifer?	Y
4. Monitoring Well Construction and Design a. Do the design and construction of the owner/operator's ground-water monitoring wells permit depth discrete ground-water samples to be taken?	Y
b. Are the samples representative of ground-water quality?	Y
c. Are the ground-water monitoring wells structurally stable?	Y
d. Does the ground-water monitoring well's design and construction permit an accurate assessment of aquifer characteristics?	Y
5. Detection Monitoring a. Downgradient Wells • Do the location, and screen lengths of the ground-water monitoring wells or clusters in the detection monitoring system allow the immediate detection of a release of hazardous waste or constituents from the hazardous waste management area to the uppermost aquifer?	not Known
b. Upgradient Wells • Do the location and screen lengths of the upgradient (background) ground-water monitoring wells ensure the capability of collecting ground-water samples representative of upgradient (background) ground-water quality including any ambient heterogenous chemical characteristics?	Y
6. Assessment Monitoring a. Has the owner/operator adequately characterized site hydrogeology to determine contaminant migration?	Y
b. Is the detection monitoring system adequately designed and constructed to immediately detect any contaminant release?	not Known

	Y/N
c. Are the procedures used to make a first determinationof contamination adequate?	N
d. Is the assessment plan adequate to detect, characterize, and track contaminant migration?	Y
e. Will the assessment monitoring wells, given site hydrogeologic conditions, define the extent and concentration of contamination in the horizontal and vertical planes?	Y
f. Are the assessment monitoring wells adequately designed and constructed?	not known
g. Are the sampling and analysis procedures adequate to provide true measures of contamination?	Y
h. Do the procedures used for evaluation of assessment monitoring data result in determinations of the rate of migration, extent of migration, and hazardous constituent composition of the contaminant plume?	N
i. Are the data collected at sufficient frequency and duration to adequately determine the rate of migration?	N
j. Is the schedule of implementation adequate?	N
k. Is the owner/operator's assessment monitoring plan adequate?	N
• If the owner/operator had to implement hisassessment monitoring plan, was it implemented satisfactorily?	N
II. Field Evaluation	
A. Ground-Water Monitoring System	
1. Are the numbers, depths, and locations of monitoring wells in agreement with those reported in the facility's monitoring plan? (See Section 3.2.3.)	Y
B. Monitoring Well Construction	
1. Identify construction material material diameter a. Primary Casing PVC b. Secondary or outside casing STEEL	
2. Is the upper portion of the borehole sealed with conrete to prevent infiltration from the surface?	Y
3. Is the well fitted with an above-ground protective device?	Y
4. Is the protective cover fitted with locks to prevent tampering? If a facility utilizes more than a single well design, answer the above questions for each well design?	Y

	Y/N
III. Review of Sample Collection Procedures	
A. Measurement of Well Depths /Elevation	
1. Are measurements of both depth to standing water and depth to the bottom of the well made?	Y
2. Are measurements taken to the 0.01 feet?	Y
3. What device is used? solinst electric water sounder	
4. Is there a reference point established by a licensed surveyor?	Y
5. Is the measuring equipment properly cleaned betweenwll locations to prevent cross contamination?	Y
B. Detection of Immiscible Layers	
1. Are procedures used which will detect light phase immiscible layers?	N/A
2. Are procedures used which will detect heavy phase immiscible layers?	N/A
C. Sampling of Immiscible Layers	
1. Are the immiscible layers sampled separately prior to well evacuation?	N/A
2. Do the procedures used minimize mixing with watersoluble phases?	N/A
D. Well Evacuation	
1. Are low yielding wells evacuated to dryness?	Y
2. Are high yielding wells evacuated so that at least three casing volumes are removed?	Y
3. What device is used to evacuate the wells? submersible pump	
4. If any problems are encountered (e.g., equipmentmalfunction) are they noted in a field logbook?	Y

	Y/N
E. Sample Withdrawal 1. For low yielding wells, are samples for volatiles, pH, and oxidation/reduction potential drawn first after the well recovers?	Y
2. Are samples withdrawn with either flurocarbon/resins or stainless steel (316, 304 or 2205) sampling devices?	Y
3. Are sampling devices either bottom valve bailers or positive gas displacement bladder pumps?	Y
4. If bailers are used, is fluorocarbon/resin coated wire, single strand stainless steel wire, or monofilament used to raise and lower the bailer?	Y
5. If bladder pumps are used, are they operated in acontinuous manner to prevent aeration of the sample?	N/A
6. If bailers are used, are they lowered slowly to prevent degassing of the water?	Y
7. If bailers are used, are the contents transferred to the sample container in a way that minimizes agitation and aeration?	Y
8. Is care taken to avoid placing clean sampling equipment on the ground or other contaminated surfaces prior to insertion into the well?	Y
9. If dedicated sampling equipment is not used, is equipment disassembled and thoroughly cleaned between samples?	N/A
10. If samples are for inorganic analysis, does the cleaning procedure include the following sequential steps: a. Dilute acid rinse (HNO_3 or HC1)?11. If samples are for organic analysis, does the cleaning procedure include the following sequential steps:	Y
11. If samples are for inorganic analysis, does the cleaning procedure include the following sequential steps: a. Nonphosphate detergent wash?	Y
b. Tap water rinse?	Y
c. Distilled/deionized water rinse?	Y
d. Acetone rinse?	Y
e. Pesticide-grade hexane rinse?	Y

	Y/N
12. Is sampling equipment thoroughly dry before use?	N
13. Are equipment blanks taken to ensure that sample cross-contamination has not occurred?	Y
14. If volatile samples are taken with a positive gas displacement bladder pump, are pumping rates below 100 ml/min?	N/A
F. In-situ or Field Analyses	
1. Are the following labile (chemically unstable) parameters determined in the field:	
a. pH?	Y
b. Temperature?	Y
c. Specific conductivity?	Y
d. Redox potential?	N
e. Chlorine?	N
f. Dissolved oxygen?	N
g. Turbidity?	N
h. Other (specify) _____	N
2. For in-situ determinations, are they made after well evacuation and sample removal?	Y
3. If sample is withdrawn from the well, is parameter measured from a split portion?	Y
4. Is monitoring equipment calibrated according to mannufacturers' specifications and consistent with SW-846?	Y
5. Is the date, procedure, and maintenance for equipment calibration documented in the field logbook?	Y
IV. Review of Sample Preservation and Handling Procedures	
A. Sample Containers	
1. Are samples transferred from the sampling device directly to their compatible containers?	Y

	Y/N
2. Are sample containers for metals (inorganics) analyses polyethylene with polypropylene caps?	Y
3. Are sample containers for organics analysis glass bottles with fluorocarbonresin-lined caps?	Y
4. If glass bottles are used for metals samples are the caps fluorocarbonresin-lined?	N/A
5. Are the sample containers for metal analyses cleanedusing these sequential steps:	
a. Nonphosphate detergent wash?	Y
b. 1:1 nitric acid rinse?	Y
c. Tap water rinse?	Y
d. 1:1 hydrochloric acid rinse?	Y
e. Tap water rinse?	Y
f. Distilled/deionized water rinse?	Y
6. Are the sample containers for organic analyses cleaned using these sequential steps:	
a. Nonphosphate detergent/hot water wash?	Y
b. Tap water rinse?	Y
c. Distilled/deionized water rinse?	Y
d. Acetone rinse?	Y
e. Pesticide-grade hexane rinse?	Y
7. Are trip blanks used for each sample container type to verify cleanliness?	Y
B. Sample Preservation Procedures	
1. Are samples for the following analyses cooled to 4°C:	
a. TOC?	Y
b. TOX?	Y
c. Chloride?	Y
d. Phenols?	Y
e. Sulfate?	Y
f. Nitrate?	Y
g. Coliform bacteria?	N/A
h. Cyanide?	N/A
i. Oil and grease?	N/A
j. Hazardous constituents (}261, Appendix VIII)?	Y

	Y/N
2. Are samples for the following analyses field acidified to pH <2 with HNO_3:	
a. Iron?	Y
b. Manganese?	Y
c. Sodium?	Y
d. Total metals?	Y
e. Dissolved metals?	Y
f. Fluoride?	N/A
g. Endrin?	N/A
h. Lindane?	N/A
i. Methoxychlor?	N/A
j. Toxaphene?	N/A
k. 2,4, D?	N/A
l. 2,4,5 TP Silvex?	N/A
m. Radium?	N/A
n. Gross alpha?	N/A
o. Gross beta?	N/A
3. Are samples for the following analyses field acidfied to pH <2 with H_2SO_4:	
a. Phenols?	Y
b. Oil and grease?	N/A
4. Is the sample for TOC analyses field acified to pH <2 with HCl?	Y
5. Is the sample for TOX analysis preserved with 1 ml of 1.1 M sodium sulfite?	N
6. Is the sample for cyanide analysis preserved with NaOH to pH >12?	N/A
C. Special Handling Considerations	
1. Are organic samples handled without filtering?	Y
2. Are samples for volatile organics transfered to the appropriate vials to eliminate headspace over the sample?	Y
3. Are samples for metal analysis split into two portions?	Y
4. Is the sample for dissolved metals filtered through a 0.45 micron filter? not collected	N/A
5. Is the second portion not filtered and analyzed for total metals? both analyzed for total metals	N/A
6. Is one equipment blank prepared each day of ground-water sampling?	Y

	Y/N
V. Review of Chain-of-Custody Procedures	
A. Sample Labels	
1. Are sample labels used?	Y
2. Do they provide the following information:	
a. Sample identification number?	Y
b. Name of collector?	Y
c. Date and time of collection?	Y
d. Place of collection?	Y
e. Parameter(s) requested and preservitives used?	Y
3. Do they remain legible even if wet?	Y
B. Sample Seals	
1. Are sample seals placed on those containers to ensure samples are not altered?	Y
C. Field Logbook	
1. Is a field logbook maintained?	Y
2. Does it document the following:	
a. Purpose of sampling (e.g., detection or assesment)?	Y
b. Location of well(s)?	Y
c. Total depth of each well?	Y
d. Static water level depth and measurement technique?	Y
e. Presence of immiscible layers and detection method?	Y
f. Collection method for immiscible layers and sample identification numbers?	Y
g. Well evacuation procedures?	Y
h. Sample withdrawal procedure?	Y
i. Date and time of collection?	Y
j. Well sampling sequence?	Y
k. Types of sample containers and sample identification number(s)?	Y
l. Preservative(s) used?	Y
m. Parameters requested?	Y
n. Field analysis data and method(s)?	Y
o. Sample distribution and transporter?	Y
p. Field observations?	Y

	Y/N
—Unusual well recharge rates?	Y
—Equipment malfunction(s)?	Y
—Possible sample contamination?	Y
—Sampling rate?	Y
D. Chain-of-Custody Record	
1. Is a chain-of-custody record included with each sample?	Y
2. Does it document the following:	
a. Sample number?	Y
b. Signiture of collector?	Y
c. Date and time of collection?	Y
d. Sample type?	Y
e. Station location?	Y
f. Number of containers?	Y
g. Parameters requested?	Y
h. Signatures of persons involved in chain-of-custody?	Y
i. Inclusive dates of custody?	Y
E. Sample Analysis Request Sheet	
1. Does a sample analysis request sheet accompany each sample?	Y
2. Does the request sheet document the following:	
a. Name of person receiving the sample?	Y
b. Date of sample receipt?	Y
c. Duplicates?	Y
d. Analysis to be performed?	Y
IV. Review of Quality Assurance/Quality Control	
A. Is the validity and reliability of the laboratory and field generated data ensured by a QA/QC program?	Y
B. Does the QA/QC program include:	
1. Documentation of any deviation from approved procedures?	Y

	Y/N
2. Documentation of analytical results for:	
a. Blanks?	Y
b. Standards?	Y
c. Duplicates?	Y
d. Spiked samples?	Y
e. Detectable limits for each parameter being analyzed?	Y
C. Are approved statistical methods used?	N
D. Are QC samples used to correct data?	Y
E. Are all data critically examined to ensure it has been properly calculated and reported?	Y
VII. Surficial Well Inspection and Field Observation	
A. Are the wells adequately maintained?	Y
B. Are the monitoring wells protected and secure? wells locked, access is available to most wells	N
C. Do the wells have surveyed casing elevations?	Y
D. Are the ground-water samples turbid?	Y
E. Have all physical characteristics of the site been noted in the inspector's field notes (i.e., surface waters, topography, surface features)?	Y
F. Has a site sketch been prepared by the field inspector with scale, north arrow, location(s) of buildings, location(s) of regulated units, locations of monitoring wells, and a rough depiction of the site drainage pattern?	Y

	Y/N
VIII. Conclusions no statistical analysis performed gw sampling has not been performed on a consistent basis **A. Is the facilitycurrently operating under the correct monitoring progaram according to the statistical analyses performed by the current operator?**	N
B. Does the ground-water monitoring system, as designed and operated, allow for detection or assessment of any possible ground-water contamination caused by the facility?	N
C. Does the sampling and analysis procedures permit the owner/operator to detect and, where possible, assess the nature and extent of a release of hazardous constituents to ground water from the monitored hazardous waste management facility?	N
This is the 3rd time since 1993 that a consultant has been onsite to split gwd water samples w/ the Dept. No statistical analysis is being performed. Many problems exist at this site. The owner has been incarcerated and still fails to comply with Federal and State regulations.	

Figure 4.3
Relationship of Technical Inadequacies to Ground-Water Performance Standards

Examples of Basic Elements Required by Performance Standards	Examples of Technical Inadequacies that may Constitute Violations	Regulatory Citations
1. Uppermost Aquifer must be correctly identified.	• failure to consider aquifers hydraulically interconnected to the uppermost aquifer.	§265.90(a) §265.91(a)(1, 2) §270.14(c)(2)
	• incorrect identification of certain formations as confining layers or aquitards.	§265.90(a) §265.91(a)(1, 2) §270.14(c)(2)
	• failure to use test drilling and/or soil borings to characterize subsurface hydrogeology.	§265.90(a) §265.91(a)(1, 2) §270.14(c)(2)
2. Ground-water flow directions and rates must be properly determined.	• failure to use piezometers or wells to determine ground-water flow rates and directions (or failure to use a sufficient number of them).	§265.90(a) §265.91(a)(1, 2) §270.14(c)(2)
	• failure to consider temporal variations in water levels when establishing flow directions (e.g., seasonal variations, short-term fluctuations due to pumping).	§265.90(a) §265.91(a)(1, 2) §270.14(c)(2)
	• failure to assess significance of vertical gradients when evaluating flow rates and directions.	§265.90(a) §265.91(a)(1, 2) §270.14(c)(2)
	• failure to use standard/consistent benchmarks when establishing water level elevations.	§265.90(a) §265.91(a)(1, 2) §270.14(c)(2)
	• failure of the owner/operator (o/o) to consider the effect of local withdrawal wells on ground-water flow direction.	§265.90(a) §265.91(a)(1)
	• failure of the o/o to obtain sufficient water level measurements.	§265.90(a) §265.91(a)(1)

Examples of Basic Elements Required by Performance Standards	Examples of Technical Inadequacies that may Constitute Violations	Regulatory Citations
3. Background wells must be located so as to yield samples that are not affected by the facility.	• failure of the o/o to consider the effect of local withdrawal wells on ground-water flow direction.	§265.90(a) §265.91(a)(1)
	• failure of the o/o to obtain sufficient water level measurements.	§265.90(a) §265.91(a)(1)
	• failure of the o/o to consider flow path of dense immiscibles in establishing upgradient well locations.	§265.90(a) §265.91(a)(1)
	• failure of the o/o to consider seasonal fluctuations in ground-water flow direction.	§265.90(a) §265.91(a)(1)
	• failure to install wells hydraulically upgradient, except in cases where upgradient water quality is affected by the facility (e.g., migration of dense immiscibles in the upgradient direction, mounding water beneath the facility).	§265.90(a) §265.91(a)(1)
	• failure of the o/o to adequately characterize subsurface hydrogeology.	§265.90(a) §265.91(a)(1)
	• wells intersect only ground water that flows around facility.	§265.90(a) §265.91(a)(1)
4. Background wells must be constructed so as to yield samples that are representative of in-situ ground-water quality.	• wells constructed of materials that may release or absorb constituents of concern	§265.90(a) §265.91(a)
	• wells improperly sealed—contamination of sample is a concern.	§265.90(a) §265.91(a), (c)
	• nested or multiple screen wells are used and it cannot be demonstrated that there has been no movement of ground water between strata.	§265.90(a) §265.91(a)(1, 2)

Examples of Basic Elements Required by Performance Standards	Examples of Technical Inadequacies that may Constitute Violations	Regulatory Citations
4. Background wells must be constructed so as to yield samples that are representative of in-situ ground-water quality. (Continued)	• improper drilling methods were used, possibly contaminating the formation.	§265.90(a) §265.91(a)
	• well intake packed with materials that may contaminate sample.	§265.90(a) §265.91(a), (c)
	• well screens used are of an inappropriate length.	§265.90(a) §265.91(a)(1, 2)
	• wells developed using water other than formation water.	§265.90(a) §265.91(a)
	• improper well development yielding samples with suspended sediments that may bias chemical analysis.	§265.90(a) §265.91(a)
	• use of drilling muds or nonformation water during well construction that can bias results of samples collected from wells.	§265.90(a) §265.91(a)
5. Downgradient monitoring wells must be located so as to ensure the immediate detection of any contamination migrating from the facility.	• wells not placed immediately adjacent to waste management area.	§265.90(a) §265.91(a)(2)
	• failure of o/o to consider potential pathways for dense immiscibles.	§265.90(a) §265.91(a)(2)
	• inadequate vertical distribution of wells in thick or heavily stratified aquifer.	§265.90(a) §265.91(a)(2)
	• inadequate horizontal distribution of wells in aquifers of varying hydraulic conductivity.	§265.90(a) §265.91(a)(2)
	• likely pathways of contamination (e.g., buried streams channels, fractures, areas of high permeability) are not intersected by wells.	§265.90(a) §265.91(a)(2)
	• well network covers uppermost but not interconnected aquifers.	§265.90(a) §265.91(a)(2)

Examples of Basic Elements Required by Performance Standards	Examples of Technical Inadequacies that may Constitute Violations	Regulatory Citations
6. Downgradient monitoring wells must be constructed so as to yield samples that are representative of in-situ ground-water quality.	See No. 4 above.	
7. Samples from background and downgradient wells must be properly collected and analyzed.	• failure to evacuate stagnant water from the well before sampling.	§265.90(a), §265.92(a) §265.93(d)(4) §2705.14(c)(4)
	• failure to sample wells within a reasonable amount of time after well evacuation.	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• improper decisions regarding filtering or non-filtering of samples prior to analysis (e.g., use of filtration on samples to be analyzed for volatile organics).	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• use of an inappropriate sampling device.	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• use of improper sample preservation techniques.	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)

Examples of Basic Elements Required by Performance Standards	Examples of Technical Inadequacies that may Constitute Violations	Regulatory Citations
7. Samples from background and downgradient wells must be properly collected and analyzed. (Continued)	• samples collected with a device that is constructed of materials that interfere with sample integrity.	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• samples collected with a non-dedicated sampling device that is not cleaned between sampling events.	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• improper use of a sampling device such that sample quality is affected (e.g., degassing of sample caused by agitation of bailer).	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• improper handling of samples (e.g., failure to eliminate headspace from containers of samples to be analyzed for volatiles).	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• failure of the sampling plan to establish procedures for sampling immiscibles (i.e., "floaters" and "sinkers").	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• failure to follow appropriate QA/QC procedures.	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• failure to ensure sample integrity through the use of proper chain-of-custody procedures.	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• failure to demonstrate suitability of methods used for sample analysis (other than those specified in SW-846).	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• failure to perform analysis in the field on unstable parameters or constituents (e.g., pH, Eh, specific conductance, alkalinity, dissolved oxygen).	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)

Examples of Basic Elements Required by Performance Standards	Examples of Technical Inadequacies that may Constitute Violations	Regulatory Citations
7. Samples from background and downgradient wells must be properly collected and analyzed. (Continued)	• use of sample containers that may interfere with sample quality (e.g., synthetic containers used with volatile samples).	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)
	• failure to make proper use of sample blanks.	§265.90(a) §265.92(a) §265.93(d)(4) §270.14(c)(4)

Appendix B (Sample Results)

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 001 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 06:30:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of metals was done.

MW-1

Laboratory Sample ID: I2001026609 COMPLETED
Standard Analysis: 210

Legal Seal: D093996 Intact: YES
Legal Seal: D093997 Intact: YES
Legal Seal: D093995 Intact: YES

Test/CAS# - Description		Reported Results	Completed
00340	COD	27. MG/L	06/19/2001
00403	pH	7.3 pH units	06/06/2001
00410	ALKALINITY	404.0 MG/L	06/06/2001
00610A	AMMONIA-N T	.04 MG/L	06/06/2001
00978H	ARSENIC R	<4.0 UG/L	06/06/2001
00981H	SELENIUM R	<7 UG/L	06/06/2001
01000H	ARSENIC D	<4.0 UG/L	06/06/2001
01025H	CADMIUM D	<.20 UG/L	06/06/2001
01030H	CHROMIUM D	<4 UG/L	06/06/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 001 06/05/2001 Status: COMPLETED

Test/CAS# - Description		Reported Results	Completed
01049H	LEAD D	<1.0 UG/L	06/06/2001
01113H	CADMIUM R	<.2 UG/L	06/06/2001
01114H	LEAD TOT R	<1.0 UG/L	06/06/2001
01118H	CHROMIUM R	<4.0 UG/L	06/06/2001
01145H	SELENIUM D	<7 UG/L	06/06/2001
00680	T ORG CARBON	6.1 MG/L	06/07/2001
00915A	CALCIUM D	155.0 MG/L	06/07/2001
00918A	CALCIUM R	154.0 MG/L	06/07/2001
00921A	MAGNESIUM R	41.8 MG/L	06/07/2001
00923A	SODIUM R	82.0 MG/L	06/07/2001
00925A	MAGNESIUM D	41.9 MG/L	06/07/2001
00930A	SODIUM D	84.0 MG/L	06/07/2001
00935A	POTASSIUM D	1.87 MG/L	06/07/2001
00939A	POTASSIUM R	2.23 MG/L	06/07/2001
00951	FLUORIDE T	<0.20 MG/L	06/07/2001
00980A	IRON R	560.0 UG/L	06/07/2001
01005A	BARIUM D	468.0 UG/L	06/07/2001
01009A	BARIUM R	477.0 UG/L	06/07/2001
01040A	COPPER D	<10.0 UG/L	06/07/2001
01046A	IRON D	345.0 UG/L	06/07/2001
01056A	MANGANESE D	1020.0 UG/L	06/07/2001
01075A	SILVER D	<10.0 UG/L	06/07/2001
01079A	SILVER R	<10.0 UG/L	06/07/2001
01090A	ZINC D	<10.0 UG/L	06/07/2001
01094A	ZINC R	<10.0 UG/L	06/07/2001
01119A	COPPER R	<10.0 UG/L	06/07/2001
01123A	MANGANESE R	977.0 UG/L	06/07/2001
71890X	MERCURY D	<1 UG/L	06/07/2001
71901X	MERCURY R	<1 UG/L	06/07/2001
00515	TDS @105 C	308 MG/L	06/08/2001
00940A	CHLORIDE	253. MG/L	06/08/2001
00620A	Nitrate-N	3.21 MG/L	06/11/2001
82079	TURBIDITY	1.97 NTU	06/11/2001
00095	SPECIFIC CON	1516. umhos/cm	06/15/2001
70353	T ORG HALIDE	79.8 UG/L	06/15/2001
00945A	SULFATE T	48.1 MG/L	06/20/2001
32730D	Phenols-Dist	<5.0 UG/L	06/25/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 001 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 06:30:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water /
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of metals was done.

MW-1

Laboratory Sample ID: O2001002395 COMPLETED
Suite: VOA-1

Legal Seal: D093992 Intact: YES

Test/CAS#	Description	Reported Results		Completed
1634044	Methyl Tert-Butyl Ether	1.6 UG/L		06/21/2001
91203	Naphthalene	0.50 UG/L	(U)	06/21/2001
95476	o-Xylene	0.50 UG/L	(U)	06/21/2001
71432	Benzene	0.50 UG/L	(U)	06/21/2001
100425	Styrene	0.50 UG/L	(U)	06/21/2001
108883	Toluene	0.11 UG/L	(J)	06/21/2001
108054	Vinyl Acetate	0.50 UG/L	(U)	06/21/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L	(U)	06/21/2001
79005	1,1,2-Trichloroethane	0.50 UG/L	(U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 001 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/21/2001
75014	Chloroethene	0.50 UG/L (U)	06/21/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/21/2001
104518	n-Butylbenzene	0.50 UG/L (U)	06/21/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
108861	Bromobenzene	0.50 UG/L (U)	06/21/2001
109999	Tetrahydrofuran	11.0 UG/L	06/21/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/21/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
591786	2-Hexanone	2.5 UG/L (U)	06/21/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
75252	Bromoform	0.50 UG/L (U)	06/21/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
67641	Acetone	0.90 UG/L (J)	06/21/2001
74953	Dibromomethane	0.50 UG/L (U)	06/21/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/21/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	06/21/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/21/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/21/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/21/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/21/2001
74839	Bromomethane	0.50 UG/L (U)	06/21/2001
78933	MEK	2.5 UG/L (U)	06/21/2001
75003	Chloroethane	0.50 UG/L (U)	06/21/2001
74873	Chloromethane	1.0 UG/L (U)	06/21/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/21/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/21/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	06/21/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/21/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/21/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
75092	Methylene Chloride	0.50 UG/L (U)	06/21/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/21/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 001 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/21/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/21/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/21/2001
108101	MIBK	2.5 UG/L (U)	06/21/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/21/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/21/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/21/2001
79016	Trichloroethene	0.50 UG/L (U)	06/21/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/21/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/21/2001
108907	Chlorobenzene	0.50 UG/L (U)	06/21/2001
67663	Chloroform	0.50 UG/L (U)	06/21/2001
98566	PCTFB	0.50 UG/L (U)	06/21/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/21/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	06/21/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 002 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 07:15:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Surface Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of the total metals. No field filtering of dissolved metals was done.

Minister Creek Downstream Sample (SWD)

Laboratory Sample ID: I2001026610 COMPLETED
Standard Analysis: 210

Legal Seal: D094003 Intact: YES
Legal Seal: D093993 Intact: YES
Legal Seal: D094004 Intact: YES
Legal Seal: D093994 Intact: YES
Legal Seal: D093998 Intact: YES
Legal Seal: D094005 Intact: YES
Legal Seal: D094002 Intact: YES
Legal Seal: D094000 Intact: YES

Test/CAS# - Description		Reported Results	Completed
00340	COD	14. MG/L	06/19/2001
00403	pH	7.0 pH units	06/06/2001
00410	ALKALINITY	92.0 MG/L	06/06/2001
00610A	AMMONIA-N T	.07 MG/L	06/06/2001
00978H	ARSENIC R	<4.0 UG/L	06/06/2001
00981H	SELENIUM R	<7 UG/L	06/06/2001
01000H	ARSENIC D	<4.0 UG/L	06/06/2001
01025H	CADMIUM D	<.20 UG/L	06/06/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 002 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
01049H	LEAD D	<1.0 UG/L	06/06/2001
01113H	CADMIUM R	<.2 UG/L	06/06/2001
01114H	LEAD TOT R	<1.0 UG/L	06/06/2001
01118H	CHROMIUM R	<4.0 UG/L	06/06/2001
01145H	SELENIUM D	<7 UG/L	06/06/2001
00680	T ORG CARBON	3.6 MG/L	06/07/2001
00915A	CALCIUM D	41.3 MG/L	06/07/2001
00918A	CALCIUM R	41.1 MG/L	06/07/2001
00921A	MAGNESIUM R	10.7 MG/L	06/07/2001
00923A	SODIUM R	27.4 MG/L	06/07/2001
00925A	MAGNESIUM D	9.39 MG/L	06/07/2001
00930A	SODIUM D	26.8 MG/L	06/07/2001
00935A	POTASSIUM D	2.52 MG/L	06/07/2001
00939A	POTASSIUM R	2.58 MG/L	06/07/2001
00951	FLUORIDE T	<0.20 MG/L	06/07/2001
00980A	IRON R	801.0 UG/L	06/07/2001
01005A	BARIUM D	91.0 UG/L	06/07/2001
01009A	BARIUM R	90.0 UG/L	06/07/2001
01040A	COPPER D	<10.0 UG/L	06/07/2001
01046A	IRON D	798.0 UG/L	06/07/2001
01056A	MANGANESE D	63.0 UG/L	06/07/2001
01075A	SILVER D	<10.0 UG/L	06/07/2001
01079A	SILVER R	<10.0 UG/L	06/07/2001
01090A	ZINC D	<10.0 UG/L	06/07/2001
01094A	ZINC R	47.0 UG/L	06/07/2001
01119A	COPPER R	<10.0 UG/L	06/07/2001
01123A	MANGANESE R	65.0 UG/L	06/07/2001
71890X	MERCURY D	<1 UG/L	06/07/2001
71901X	MERCURY R	<1 UG/L	06/07/2001
00515	TDS @105 C	144 MG/L	06/08/2001
00940A	CHLORIDE	51. MG/L	06/08/2001
00620A	Nitrate-N	1.44 MG/L	06/11/2001
82079	TURBIDITY	18.4 NTU	06/11/2001
00095	SPECIFIC CON	434. umhos/cm	06/15/2001
70353	T ORG HALIDE	12.0 UG/L	06/15/2001
00945A	SULFATE T	262. MG/L	06/20/2001
32730D	Phenols-Dist	<5.0 UG/L	06/25/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 002 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 07:15:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Surface Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of the total metals. No field filtering of dissolved metals was done.

Minister Creek Downstream Sample (SWD)

Laboratory Sample ID: O2001002396 COMPLETED
Suite: VOA-1

Legal Seal: D093999 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.11 UG/L (J)	06/21/2001
91203	Naphthalene	0.50 UG/L (U)	06/21/2001
95476	o-Xylene	0.50 UG/L (U)	06/21/2001
71432	Benzene	0.50 UG/L (U)	06/21/2001
100425	Styrene	0.50 UG/L (U)	06/21/2001
108883	Toluene	0.084 UG/L (J)	06/21/2001
108054	Vinyl Acetate	0.50 UG/L (U)	06/21/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 002 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/21/2001
75014	Chloroethene	0.50 UG/L (U)	06/21/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/21/2001
104518	n-Butylbenzene	0.50 UG/L (U)	06/21/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
108861	Bromobenzene	0.50 UG/L (U)	06/21/2001
109999	Tetrahydrofuran	1.0 UG/L (U)	06/21/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/21/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
591786	2-Hexanone	2.5 UG/L (U)	06/21/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
75252	Bromoform	0.50 UG/L (U)	06/21/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
67641	Acetone	0.80 UG/L (J)	06/21/2001
74953	Dibromomethane	0.50 UG/L (U)	06/21/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/21/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	06/21/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/21/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/21/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/21/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/21/2001
74839	Bromomethane	0.50 UG/L (U)	06/21/2001
78933	MEK	2.5 UG/L (U)	06/21/2001
75003	Chloroethane	0.50 UG/L (U)	06/21/2001
74873	Chloromethane	1.0 UG/L (U)	06/21/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/21/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/21/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	06/21/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/21/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/21/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
75092	Methylene Chloride	0.50 UG/L (U)	06/21/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/21/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 002 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/21/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/21/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/21/2001
108101	MIBK	0.41 UG/L (J)	06/21/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/21/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/21/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/21/2001
79016	Trichloroethene	0.50 UG/L (U)	06/21/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/21/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/21/2001
108907	Chlorobenzene	0.50 UG/L (U)	06/21/2001
67663	Chloroform	0.50 UG/L (U)	06/21/2001
98566	PCTFB	0.50 UG/L (U)	06/21/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/21/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	06/21/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 003 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 07:30:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-7

Laboratory Sample ID: I2001026585 COMPLETED
Standard Analysis: 210

Legal Seal: D094009 Intact: YES

Test/CAS# - Description		Reported Results	Completed
00680	T ORG CARBON	6.5 MG/L	06/07/2001
00951	FLUORIDE T	<0.20 MG/L	06/07/2001
00978H	ARSENIC R	<4.0 UG/L	06/07/2001
00981H	SELENIUM R	<7 UG/L	06/07/2001
01000H	ARSENIC D	<4.0 UG/L	06/07/2001
01025H	CADMIUM D	<.20 UG/L	06/07/2001
01030H	CHROMIUM D	<4 UG/L	06/07/2001
01049H	LEAD D	<1.0 UG/L	06/07/2001
01113H	CADMIUM R	<.2 UG/L	06/07/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 003 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
01114H	LEAD TOT R	1.4 UG/L	06/07/2001
01118H	CHROMIUM R	<4.0 UG/L	06/07/2001
01145H	SELENIUM D	<7 UG/L	06/07/2001
71890X	MERCURY D	<1 UG/L	06/07/2001
71901X	MERCURY R	<1 UG/L	06/07/2001
00403	pH	7.1 pH units	06/06/2001
00410	ALKALINITY	234.0 MG/L	06/06/2001
00610A	AMMONIA-N T	.19 MG/L	06/06/2001
00915A	CALCIUM D	93.1 MG/L	06/06/2001
00918A	CALCIUM R	95.8 MG/L	06/06/2001
00921A	MAGNESIUM R	28.5 MG/L	06/06/2001
00923A	SODIUM R	47.9 MG/L	06/06/2001
00925A	MAGNESIUM D	27.7 MG/L	06/06/2001
00930A	SODIUM D	47.3 MG/L	06/06/2001
00935A	POTASSIUM D	3.05 MG/L	06/06/2001
00939A	POTASSIUM R	3.15 MG/L	06/06/2001
00980A	IRON R	3230.0 UG/L	06/06/2001
01005A	BARIUM D	542.0 UG/L	06/06/2001
01009A	BARIUM R	566.0 UG/L	06/06/2001
01040A	COPPER D	<10.0 UG/L	06/06/2001
01046A	IRON D	2570.0 UG/L	06/06/2001
01056A	MANGANESE D	1420.0 UG/L	06/06/2001
01075A	SILVER D	<10.0 UG/L	06/06/2001
01079A	SILVER R	<10.0 UG/L	06/06/2001
01090A	ZINC D	12.0 UG/L	06/06/2001
01094A	ZINC R	13.0 UG/L	06/06/2001
01119A	COPPER R	<10.0 UG/L	06/06/2001
01123A	MANGANESE R	1640.0 UG/L	06/06/2001
00515	TDS @105 C	692 MG/L	06/08/2001
00940A	CHLORIDE	161. MG/L	06/08/2001
82079	TURBIDITY	57.2 NTU	06/11/2001
00095	SPECIFIC CON	941. umhos/cm	06/15/2001
70353	T ORG HALIDE	40.0 UG/L	06/15/2001
00340	COD	27. MG/L	06/19/2001
00620A	Nitrate-N	.99 MG/L	06/18/2001
00945A	SULFATE T	<20.0 MG/L	06/20/2001
32730D	Phenols-Dist	<5.0 UG/L	06/25/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 003 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 07:30:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-7

Laboratory Sample ID: O2001002397 COMPLETED
Suite: VOA-1

Legal Seal: D094006 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.11 UG/L (J)	06/21/2001
91203	Naphthalene	0.50 UG/L (U)	06/21/2001
95476	o-Xylene	0.50 UG/L (U)	06/21/2001
71432	Benzene	0.50 UG/L (U)	06/21/2001
100425	Styrene	0.50 UG/L (U)	06/21/2001
108883	Toluene	0.50 UG/L (U)	06/21/2001
108054	Vinyl Acetate	0.50 UG/L (U)	06/21/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 003 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/21/2001
75014	Chloroethene	0.50 UG/L (U)	06/21/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/21/2001
104518	n-Butylbenzene	0.50 UG/L (U)	06/21/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
108861	Bromobenzene	0.50 UG/L (U)	06/21/2001
109999	Tetrahydrofuran	2.1 UG/L (Q)	06/21/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/21/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
591786	2-Hexanone	2.5 UG/L (U)	06/21/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
75252	Bromoform	0.50 UG/L (U)	06/21/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
67641	Acetone	1.3 UG/L (JB)	06/21/2001
74953	Dibromomethane	0.50 UG/L (U)	06/21/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/21/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	06/21/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/21/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/21/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/21/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/21/2001
74839	Bromomethane	0.091 UG/L (JB)	06/21/2001
78933	MEK	2.5 UG/L (U)	06/21/2001
75003	Chloroethane	0.50 UG/L (U)	06/21/2001
74873	Chloromethane	1.0 UG/L (U)	06/21/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/21/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/21/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	06/21/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/21/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/21/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
75092	Methylene Chloride	0.50 UG/L (U)	06/21/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/21/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 003 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/21/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/21/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/21/2001
108101	MIBK	2.5 UG/L (U)	06/21/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/21/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/21/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/21/2001
79016	Trichloroethene	0.50 UG/L (U)	06/21/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/21/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/21/2001
108907	Chlorobenzene	0.50 UG/L (U)	06/21/2001
67663	Chloroform	0.50 UG/L (U)	06/21/2001
98566	PCTFB	0.50 UG/L (U)	06/21/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/21/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	06/21/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 004 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 08:15:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-8

Laboratory Sample ID: I2001026586 COMPLETED
Standard Analysis: 210

Legal Seal: D094014 Intact: YES
Legal Seal: D094017 Intact: YES
Legal Seal: D094015 Intact: YES
Legal Seal: D094018 Intact: YES
Legal Seal: D094019 Intact: YES
Legal Seal: D094016 Intact: YES

Test/CAS# - Description		Reported Results	Completed
71901X	MERCURY R	<1 UG/L	06/07/2001
00680	T ORG CARBON	2.1 MG/L	06/07/2001
00951	FLUORIDE T	<0.20 MG/L	06/07/2001
00978H	ARSENIC R	<4.0 UG/L	06/07/2001
00981H	SELENIUM R	<7 UG/L	06/07/2001
01000H	ARSENIC D	<4.0 UG/L	06/07/2001
01025H	CADMIUM D	<.20 UG/L	06/07/2001
01030H	CHROMIUM D	<4 UG/L	06/07/2001
01049H	LEAD D	<1.0 UG/L	06/07/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 004 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
01113H	CADMIUM R	<.2 UG/L	06/07/2001
01114H	LEAD TOT R	<1.0 UG/L	06/07/2001
01118H	CHROMIUM R	<4.0 UG/L	06/07/2001
01145H	SELENIUM D	<7 UG/L	06/07/2001
71890X	MERCURY D	<1 UG/L	06/07/2001
00403	pH	7.2 pH units	06/06/2001
00410	ALKALINITY	310.0 MG/L	06/06/2001
00610A	AMMONIA-N T	<.02 MG/L	06/06/2001
00915A	CALCIUM D	96.3 MG/L	06/06/2001
00918A	CALCIUM R	101.0 MG/L	06/06/2001
00921A	MAGNESIUM R	45.5 MG/L	06/06/2001
00923A	SODIUM R	14.9 MG/L	06/06/2001
00925A	MAGNESIUM D	43.0 MG/L	06/06/2001
00930A	SODIUM D	14.1 MG/L	06/06/2001
00935A	POTASSIUM D	1.81 MG/L	06/06/2001
00939A	POTASSIUM R	2.09 MG/L	06/06/2001
00980A	IRON R	1060.0 UG/L	06/06/2001
01005A	BARIUM D	1100.0 UG/L	06/06/2001
01009A	BARIUM R	1130.0 UG/L	06/06/2001
01040A	COPPER D	<10.0 UG/L	06/06/2001
01046A	IRON D	839.0 UG/L	06/06/2001
01056A	MANGANESE D	19.0 UG/L	06/06/2001
01075A	SILVER D	<10.0 UG/L	06/06/2001
01079A	SILVER R	<10.0 UG/L	06/06/2001
01090A	ZINC D	13.0 UG/L	06/06/2001
01094A	ZINC R	16.0 UG/L	06/06/2001
01119A	COPPER R	<10.0 UG/L	06/06/2001
01123A	MANGANESE R	21.0 UG/L	06/06/2001
00515	TDS @105 C	648 MG/L	06/08/2001
00940A	CHLORIDE	96. MG/L	06/08/2001
00620A	Nitrate-N	1.17 MG/L	06/11/2001
82079	TURBIDITY	16. NTU	06/11/2001
00095	SPECIFIC CON	887. umhos/cm	06/15/2001
70353	T ORG HALIDE	21.8 UG/L	06/15/2001
00340	COD	14. MG/L	06/19/2001
00945A	SULFATE T	<20.0 MG/L	06/20/2001
32730D	Phenols-Dist	<5.0 UG/L	06/25/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 004 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 08:15:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-8

Laboratory Sample ID: O2001002398 COMPLETED
Suite: VOA-1

Legal Seal: D094013 Intact: YES

Test/CAS# - Description		Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.57 UG/L (Q)	06/21/2001
91203	Naphthalene	0.50 UG/L (U)	06/21/2001
95476	o-Xylene	0.50 UG/L (U)	06/21/2001
71432	Benzene	0.50 UG/L (U)	06/21/2001
100425	Styrene	0.50 UG/L (U)	06/21/2001
108883	Toluene	0.50 UG/L (U)	06/21/2001
108054	Vinyl Acetate	0.50 UG/L (U)	06/21/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 004 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/21/2001
75014	Chloroethene	0.50 UG/L (U)	06/21/2001
106467	1,4-Dichlorobenzene	0.12 UG/L (J)	06/21/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/21/2001
104518	n-Butylbenzene	0.50 UG/L (U)	06/21/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
108861	Bromobenzene	0.50 UG/L (U)	06/21/2001
109999	Tetrahydrofuran	1.0 UG/L (U)	06/21/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/21/2001
156592	cis-1,2-Dichloroethene	0.74 UG/L (Q)	06/21/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
591786	2-Hexanone	2.5 UG/L (U)	06/21/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
75252	Bromoform	0.50 UG/L (U)	06/21/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
67641	Acetone	2.5 UG/L (U)	06/21/2001
74953	Dibromomethane	0.50 UG/L (U)	06/21/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/21/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	06/21/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/21/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/21/2001
95501	1,2-Dichlorobenzene	0.10 UG/L (J)	06/21/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/21/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/21/2001
74839	Bromomethane	0.50 UG/L (U)	06/21/2001
78933	MEK	2.5 UG/L (U)	06/21/2001
75003	Chloroethane	0.28 UG/L (J)	06/21/2001
74873	Chloromethane	1.0 UG/L (U)	06/21/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/21/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/21/2001
75343	1,1-Dichloroethane	0.84 UG/L (Q)	06/21/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/21/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/21/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
75092	Methylene Chloride	0.50 UG/L (U)	06/21/2001
78875	1,2-Dichloropropane	0.067 UG/L (J)	06/21/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/21/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 004 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/21/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/21/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/21/2001
108101	MIBK	2.5 UG/L (U)	06/21/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/21/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/21/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/21/2001
79016	Trichloroethene	0.50 UG/L (U)	06/21/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/21/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/21/2001
108907	Chlorobenzene	0.34 UG/L (J)	06/21/2001
67663	Chloroform	0.50 UG/L (U)	06/21/2001
98566	PCTFB	0.50 UG/L (U)	06/21/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/21/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	06/21/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 005 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 09:15:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water /
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-5

Laboratory Sample ID: I2001026598 COMPLETED
Standard Analysis: 210

Legal Seal: D094024 Intact: YES
Legal Seal: D094026 Intact: YES
Legal Seal: D094022 Intact: YES
Legal Seal: D094021 Intact: YES
Legal Seal: D094023 Intact: YES
Legal Seal: D094025 Intact: YES

Test/CAS# - Description		Reported Results	Completed
00340	COD	16. MG/L	06/19/2001
00403	pH	7.5 pH units	06/06/2001
00410	ALKALINITY	260.0 MG/L	06/06/2001
00610A	AMMONIA-N T	<.02 MG/L	06/06/2001
00680	T ORG CARBON	1.6 MG/L	06/07/2001
00915A	CALCIUM D	97.2 MG/L	06/07/2001
00918A	CALCIUM R	69.8 MG/L	06/07/2001
00921A	MAGNESIUM R	31.4 MG/L	06/07/2001
00923A	SODIUM R	12.5 MG/L	06/07/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 005 06/05/2001 Status: COMPLETED

Test/CAS# - Description	Reported Results	Completed
00925A MAGNESIUM D	34.3 MG/L	06/07/2001
00930A SODIUM D	12.2 MG/L	06/07/2001
00935A POTASSIUM D	4.75 MG/L	06/07/2001
** Comment ** Answer Rechecked By Analyst		
00939A POTASSIUM R	3.61 MG/L	06/07/2001
** Comment ** Answer Rechecked By Analyst		
00951 FLUORIDE T	<0.20 MG/L	06/07/2001
00978H ARSENIC R	<4.0 UG/L	06/07/2001
00980A IRON R	6360.0 UG/L	06/07/2001
00981H SELENIUM R	<7 UG/L	06/07/2001
01000H ARSENIC D	4.1 UG/L	06/07/2001
** Comment ** Answer Rechecked By Analyst		
01005A BARIUM D	578.0 UG/L	06/07/2001
01009A BARIUM R	550.0 UG/L	06/07/2001
01025H CADMIUM D	.34 UG/L	06/07/2001
** Comment ** Answer Rechecked By Analyst		
01030H CHROMIUM D	6.4 UG/L	06/07/2001
** Comment ** Answer Rechecked By Analyst		
01040A COPPER D	49.0 UG/L	06/07/2001
01046A IRON D	13300.0 UG/L	06/07/2001
01049H LEAD D	28.7 UG/L	06/07/2001
** Comment ** Answer Rechecked By Analyst		
01056A MANGANESE D	454.0 UG/L	06/07/2001
01075A SILVER D	<10.0 UG/L	06/07/2001
01079A SILVER R	<10.0 UG/L	06/07/2001
01090A ZINC D	70.0 UG/L	06/07/2001
01094A ZINC R	35.0 UG/L	06/07/2001
01113H CADMIUM R	<.2 UG/L	06/07/2001
01114H LEAD TOT R	5.3 UG/L	06/07/2001
01118H CHROMIUM R	4.4 UG/L	06/07/2001
01119A COPPER R	30.0 UG/L	06/07/2001
01123A MANGANESE R	116.0 UG/L	06/07/2001
01145H SELENIUM D	<7 UG/L	06/07/2001
71890X MERCURY D	<1 UG/L	06/07/2001
71901X MERCURY R	<1 UG/L	06/07/2001
00515 TDS @105 C	456 MG/L	06/08/2001
00940A CHLORIDE	15. MG/L	06/08/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 005 06/05/2001 Status: COMPLETED

Test/CAS#	- Description	Reported Results	Completed
00620A	Nitrate-N	4.50 MG/L	06/11/2001
82079	TURBIDITY	229. NTU	06/11/2001
00095	SPECIFIC CON	564. umhos/cm	06/15/2001
70353	T ORG HALIDE	7.5 UG/L	06/15/2001
00945A	SULFATE T	<20.0 MG/L	06/20/2001
32730D	Phenols-Dist	<5.0 UG/L	06/25/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 005 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 09:15:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-5

Laboratory Sample ID: O2001002399 COMPLETED
Suite: VOA-1

Legal Seal: D094020 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.24 UG/L (J)	06/21/2001
91203	Naphthalene	0.50 UG/L (U)	06/21/2001
95476	o-Xylene	0.50 UG/L (U)	06/21/2001
71432	Benzene	0.50 UG/L (U)	06/21/2001
100425	Styrene	0.50 UG/L (U)	06/21/2001
108883	Toluene	0.50 UG/L (U)	06/21/2001
108054	Vinyl Acetate	0.50 UG/L (U)	06/21/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 005 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/21/2001
75014	Chloroethene	0.50 UG/L (U)	06/21/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/21/2001
104518	n-Butylbenzene	0.50 UG/L (U)	06/21/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
108861	Bromobenzene	0.50 UG/L (U)	06/21/2001
109999	Tetrahydrofuran	1.0 UG/L (U)	06/21/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/21/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
591786	2-Hexanone	2.5 UG/L (U)	06/21/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
75252	Bromoform	0.50 UG/L (U)	06/21/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
67641	Acetone	2.5 UG/L (U)	06/21/2001
74953	Dibromomethane	0.50 UG/L (U)	06/21/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/21/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	06/21/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/21/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/21/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/21/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/21/2001
74839	Bromomethane	0.50 UG/L (U)	06/21/2001
78933	MEK	2.5 UG/L (U)	06/21/2001
75003	Chloroethane	0.50 UG/L (U)	06/21/2001
74873	Chloromethane	1.0 UG/L (U)	06/21/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/21/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/21/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	06/21/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/21/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/21/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
75092	Methylene Chloride	0.50 UG/L (U)	06/21/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/21/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 005 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/21/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/21/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/21/2001
108101	MIBK	2.5 UG/L (U)	06/21/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/21/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/21/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/21/2001
79016	Trichloroethene	0.50 UG/L (U)	06/21/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/21/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/21/2001
108907	Chlorobenzene	0.50 UG/L (U)	06/21/2001
67663	Chloroform	0.50 UG/L (U)	06/21/2001
98566	PCTFB	0.50 UG/L (U)	06/21/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/21/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	06/21/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 006 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 10:15:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of metals was done.

MW-11

Laboratory Sample ID: I2001026599 COMPLETED
Standard Analysis: 210

Legal Seal: D094030 Intact: YES
Legal Seal: D094032 Intact: YES
Legal Seal: D094033 Intact: YES
Legal Seal: D094028 Intact: YES
Legal Seal: D094031 Intact: YES
Legal Seal: D094029 Intact: YES

Test/CAS# - Description		Reported Results	Completed
00340	COD	19. MG/L	06/19/2001
00403	pH	6.8 pH units	06/06/2001
00410	ALKALINITY	106.0 MG/L	06/06/2001
00610A	AMMONIA-N T	<.02 MG/L	06/06/2001
00915A	CALCIUM D	38.1 MG/L	06/06/2001
00918A	CALCIUM R	39.2 MG/L	06/06/2001
00923A	SODIUM R	5.95 MG/L	06/06/2001
00930A	SODIUM D	5.88 MG/L	06/06/2001
00978H	ARSENIC R	5.7 UG/L	06/06/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 006 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
00981H	SELENIUM R	<7 UG/L	06/06/2001
01000H	ARSENIC D	6.2 UG/L	06/06/2001
01025H	CADMIUM D	<.20 UG/L	06/06/2001
01030H	CHROMIUM D	12.7 UG/L	06/06/2001
01049H	LEAD D	8.0 UG/L	06/06/2001
01056A	MANGANESE D	670.0 UG/L	06/06/2001
01075A	SILVER D	<10.0 UG/L	06/06/2001
01079A	SILVER R	<10.0 UG/L	06/06/2001
01113H	CADMIUM R	<.2 UG/L	06/06/2001
01114H	LEAD TOT R	7.0 UG/L	06/06/2001
01118H	CHROMIUM R	50.0 UG/L	06/06/2001
01123A	MANGANESE R	685.0 UG/L	06/06/2001
01145H	SELENIUM D	<7 UG/L	06/06/2001
00680	T ORG CARBON	2.9 MG/L	06/07/2001
00921A	MAGNESIUM R	9.53 MG/L	06/07/2001
00925A	MAGNESIUM D	10.3 MG/L	06/07/2001
00935A	POTASSIUM D	6.55 MG/L	06/07/2001
00939A	POTASSIUM R	6.24 MG/L	06/07/2001
00951	FLUORIDE T	<0.20 MG/L	06/07/2001
00980A	IRON R	25300.0 UG/L	06/07/2001
01005A	BARIUM D	766.0 UG/L	06/07/2001
01009A	BARIUM R	720.0 UG/L	06/07/2001
01040A	COPPER D	60.0 UG/L	06/07/2001
01046A	IRON D	27300.0 UG/L	06/07/2001
01090A	ZINC D	93.0 UG/L	06/07/2001
01094A	ZINC R	81.0 UG/L	06/07/2001
01119A	COPPER R	51.0 UG/L	06/07/2001
71890X	MERCURY D	<1 UG/L	06/07/2001
71901X	MERCURY R	<1 UG/L	06/07/2001
00515	TDS @105 C	244 MG/L	06/08/2001
00940A	CHLORIDE	3. MG/L	06/08/2001
00620A	Nitrate-N	.93 MG/L	06/11/2001
82079	TURBIDITY	343. NTU	06/11/2001
00095	SPECIFIC CON	247. umhos/cm	06/15/2001
70353	T ORG HALIDE	5.6 UG/L	06/15/2001
00945A	SULFATE T	<20.0 MG/L	06/20/2001
32730D	Phenols-Dist	<5.0 UG/L	06/25/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 006 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 10:15:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of metals was done.

MW-11

Laboratory Sample ID: O2001002400 COMPLETED
Suite: VOA-1

Legal Seal: D094027 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.091 UG/L (J)	06/21/2001
91203	Naphthalene	0.50 UG/L (U)	06/21/2001
95476	o-Xylene	0.50 UG/L (U)	06/21/2001
71432	Benzene	0.50 UG/L (U)	06/21/2001
100425	Styrene	0.50 UG/L (U)	06/21/2001
108883	Toluene	0.093 UG/L (J)	06/21/2001
108054	Vinyl Acetate	0.50 UG/L (U)	06/21/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 006 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/21/2001
75014	Chloroethene	0.50 UG/L (U)	06/21/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/21/2001
104518	n-Butylbenzene	0.50 UG/L (U)	06/21/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
108861	Bromobenzene	0.50 UG/L (U)	06/21/2001
109999	Tetrahydrofuran	1.0 UG/L (U)	06/21/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/21/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
591786	2-Hexanone	2.5 UG/L (U)	06/21/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
75252	Bromoform	0.50 UG/L (U)	06/21/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
67641	Acetone	0.81 UG/L (JB)	06/21/2001
74953	Dibromomethane	0.50 UG/L (U)	06/21/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/21/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	06/21/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/21/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/21/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/21/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/21/2001
74839	Bromomethane	0.50 UG/L (U)	06/21/2001
78933	MEK	2.5 UG/L (U)	06/21/2001
75003	Chloroethane	0.50 UG/L (U)	06/21/2001
74873	Chloromethane	1.0 UG/L (U)	06/21/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/21/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/21/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	06/21/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/21/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/21/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
75092	Methylene Chloride	0.50 UG/L (U)	06/21/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/21/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 006 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/21/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/21/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/21/2001
108101	MIBK	2.5 UG/L (U)	06/21/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/21/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/21/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/21/2001
79016	Trichloroethene	0.50 UG/L (U)	06/21/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/21/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/21/2001
108907	Chlorobenzene	0.50 UG/L (U)	06/21/2001
67663	Chloroform	0.50 UG/L (U)	06/21/2001
98566	PCTFB	0.50 UG/L (U)	06/21/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/21/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	06/21/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 007 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 11:00:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-12

Laboratory Sample ID: I2001026591 COMPLETED
Standard Analysis: 210

Legal Seal: D094036 Intact: YES
Legal Seal: D094039 Intact: YES
Legal Seal: D094038 Intact: YES
Legal Seal: D094037 Intact: YES
Legal Seal: D094035 Intact: YES
Legal Seal: D094040 Intact: YES

Test/CAS#	Description	Reported Results	Completed
00403	pH	7.6 pH units	06/06/2001
00410	ALKALINITY	192.0 MG/L	06/06/2001
00610A	AMMONIA-N T	<.02 MG/L	06/06/2001
00915A	CALCIUM D	60.3 MG/L	06/06/2001
00918A	CALCIUM R	61.8 MG/L	06/06/2001
00921A	MAGNESIUM R	13.4 MG/L	06/06/2001
00923A	SODIUM R	7.91 MG/L	06/06/2001
00925A	MAGNESIUM D	13.0 MG/L	06/06/2001
00930A	SODIUM D	7.93 MG/L	06/06/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 007 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
00935A	POTASSIUM D	2.01 MG/L	06/06/2001
00939A	POTASSIUM R	1.9 MG/L	06/06/2001
00980A	IRON R	4490.0 UG/L	06/06/2001
01005A	BARIUM D	329.0 UG/L	06/06/2001
01009A	BARIUM R	307.0 UG/L	06/06/2001
01046A	IRON D	4540.0 UG/L	06/06/2001
01056A	MANGANESE D	3710.0 UG/L	06/06/2001
01075A	SILVER D	<10.0 UG/L	06/06/2001
01079A	SILVER R	<10.0 UG/L	06/06/2001
01123A	MANGANESE R	3460.0 UG/L	06/06/2001
00680	T ORG CARBON	<1.00 MG/L	06/07/2001
00951	FLUORIDE T	<0.20 MG/L	06/07/2001
00978H	ARSENIC R	5.8 UG/L	06/07/2001
00981H	SELENIUM R	<7 UG/L	06/07/2001
01000H	ARSENIC D	5.6 UG/L	06/07/2001
01025H	CADMIUM D	<.20 UG/L	06/07/2001
01030H	CHROMIUM D	<4 UG/L	06/07/2001
01040A	COPPER D	<10.0 UG/L	06/07/2001
01049H	LEAD D	1.9 UG/L	06/07/2001
01090A	ZINC D	18.0 UG/L	06/07/2001
01094A	ZINC R	15.0 UG/L	06/07/2001
01113H	CADMIUM R	<.2 UG/L	06/07/2001
01114H	LEAD TOT R	2. UG/L	06/07/2001
01118H	CHROMIUM R	<4.0 UG/L	06/07/2001
01119A	COPPER R	<10.0 UG/L	06/07/2001
01145H	SELENIUM D	<7 UG/L	06/07/2001
71890X	MERCURY D	<1 UG/L	06/07/2001
71901X	MERCURY R	<1 UG/L	06/07/2001
00515	TDS @105 C	252 MG/L	06/08/2001
00940A	CHLORIDE	4. MG/L	06/08/2001
00620A	Nitrate-N	.95 MG/L	06/11/2001
82079	TURBIDITY	124 NTU	06/11/2001
00095	SPECIFIC CON	413. umhos/cm	06/15/2001
70353	T ORG HALIDE	5.8 UG/L	06/15/2001
00340	COD	13. MG/L	06/19/2001
00945A	SULFATE T	<20.0 MG/L	06/20/2001
32730D	Phenols-Dist	<5.0 UG/L	06/25/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 007 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 11:00:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-12

Laboratory Sample ID: O2001002401 COMPLETED
Suite: VOA-1

Legal Seal: D094034 Intact: YES

Test/CAS# - Description		Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.50 UG/L (U)	06/21/2001
91203	Naphthalene	0.50 UG/L (U)	06/21/2001
95476	o-Xylene	0.50 UG/L (U)	06/21/2001
71432	Benzene	0.50 UG/L (U)	06/21/2001
100425	Styrene	0.50 UG/L (U)	06/21/2001
108883	Toluene	0.082 UG/L (J)	06/21/2001
108054	Vinyl Acetate	0.50 UG/L (U)	06/21/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 007 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/21/2001
75014	Chloroethene	0.50 UG/L (U)	06/21/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/21/2001
104518	n-Butylbenzene	0.50 UG/L (U)	06/21/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
108861	Bromobenzene	0.50 UG/L (U)	06/21/2001
109999	Tetrahydrofuran	1.0 UG/L (U)	06/21/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/21/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
591786	2-Hexanone	2.5 UG/L (U)	06/21/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
75252	Bromoform	0.50 UG/L (U)	06/21/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
67641	Acetone	1.1 UG/L (JB)	06/21/2001
74953	Dibromomethane	0.50 UG/L (U)	06/21/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/21/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	06/21/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/21/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/21/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/21/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/21/2001
74839	Bromomethane	0.50 UG/L (U)	06/21/2001
78933	MEK	2.5 UG/L (U)	06/21/2001
75003	Chloroethane	0.50 UG/L (U)	06/21/2001
74873	Chloromethane	1.0 UG/L (U)	06/21/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/21/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/21/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	06/21/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/21/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/21/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
75092	Methylene Chloride	0.50 UG/L (U)	06/21/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/21/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 007 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/21/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/21/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/21/2001
108101	MIBK	2.5 UG/L (U)	06/21/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/21/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/21/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/21/2001
79016	Trichloroethene	0.50 UG/L (U)	06/21/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/21/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/21/2001
108907	Chlorobenzene	0.50 UG/L (U)	06/21/2001
67663	Chloroform	0.50 UG/L (U)	06/21/2001
98566	PCTFB	0.50 UG/L (U)	06/21/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/21/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	06/21/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 008 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 11:30:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-10

Laboratory Sample ID: I2001026592 COMPLETED
Standard Analysis: 210

Legal Seal: D094044 Intact: YES
Legal Seal: D094047 Intact: YES
Legal Seal: D094042 Intact: YES
Legal Seal: D094043 Intact: YES
Legal Seal: D094045 Intact: YES
Legal Seal: D094046 Intact: YES

Test/CAS# - Description		Reported Results	Completed
00403	pH	6.9 pH units	06/06/2001
00410	ALKALINITY	134.0 MG/L	06/06/2001
00610A	AMMONIA-N T	<.02 MG/L	06/06/2001
00915A	CALCIUM D	45.0 MG/L	06/06/2001
00918A	CALCIUM R	46.1 MG/L	06/06/2001
00921A	MAGNESIUM R	9.61 MG/L	06/06/2001
00923A	SODIUM R	6.15 MG/L	06/06/2001
00925A	MAGNESIUM D	9.4 MG/L	06/06/2001
00930A	SODIUM D	6.06 MG/L	06/06/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 008 06/05/2001 Status: COMPLETED

Test/CAS#	- Description	Reported Results	Completed
00935A	POTASSIUM D	2.94 MG/L	06/06/2001
00939A	POTASSIUM R	3.13 MG/L	06/06/2001
00980A	IRON R	9010.0 UG/L	06/06/2001
01005A	BARIUM D	516.0 UG/L	06/06/2001
01009A	BARIUM R	531.0 UG/L	06/06/2001
01040A	COPPER D	17.0 UG/L	06/06/2001
01046A	IRON D	8840.0 UG/L	06/06/2001
01056A	MANGANESE D	281.0 UG/L	06/06/2001
01075A	SILVER D	<10.0 UG/L	06/06/2001
01079A	SILVER R	<10.0 UG/L	06/06/2001
01090A	ZINC D	29.0 UG/L	06/06/2001
01094A	ZINC R	35.0 UG/L	06/06/2001
01119A	COPPER R	18.0 UG/L	06/06/2001
01123A	MANGANESE R	298.0 UG/L	06/06/2001
00680	T ORG CARBON	2.1 MG/L	06/07/2001
00951	FLUORIDE T	<0.20 MG/L	06/07/2001
00978H	ARSENIC R	<4.0 UG/L	06/07/2001
00981H	SELENIUM R	<7 UG/L	06/07/2001
01000H	ARSENIC D	<4.0 UG/L	06/07/2001
01025H	CADMIUM D	<.20 UG/L	06/07/2001
01030H	CHROMIUM D	4.9 UG/L	06/07/2001
01049H	LEAD D	3.1 UG/L	06/07/2001
01113H	CADMIUM R	<.2 UG/L	06/07/2001
01114H	LEAD TOT R	3.2 UG/L	06/07/2001
01118H	CHROMIUM R	4.9 UG/L	06/07/2001
01145H	SELENIUM D	<7 UG/L	06/07/2001
71890X	MERCURY D	<1 UG/L	06/07/2001
71901X	MERCURY R	<1 UG/L	06/07/2001
00515	TDS @105 C	512 MG/L	06/08/2001
00940A	CHLORIDE	2. MG/L	06/08/2001
00620A	Nitrate-N	.74 MG/L	06/11/2001
82079	TURBIDITY	298 NTU	06/11/2001
00095	SPECIFIC CON	291. umhos/cm	06/15/2001
70353	T ORG HALIDE	10.4 UG/L	06/15/2001
00340	COD	16. MG/L	06/19/2001
00945A	SULFATE T	<20.0 MG/L	06/20/2001
32730D	Phenols-Dist	<5.0 UG/L	06/25/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 008 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 11:30:00 AM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-10

Laboratory Sample ID: O2001002402 COMPLETED
Suite: VOA-1

Legal Seal: D094041 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.060 UG/L (J)	06/21/2001
91203	Naphthalene	0.50 UG/L (U)	06/21/2001
95476	o-Xylene	0.50 UG/L (U)	06/21/2001
71432	Benzene	0.50 UG/L (U)	06/21/2001
100425	Styrene	0.50 UG/L (U)	06/21/2001
108883	Toluene	0.50 UG/L (U)	06/21/2001
108054	Vinyl Acetate	0.50 UG/L (U)	06/21/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 008 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/21/2001
75014	Chloroethene	0.50 UG/L (U)	06/21/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/21/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/21/2001
104518	n-Butylbenzene	0.50 UG/L (U)	06/21/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
108861	Bromobenzene	0.50 UG/L (U)	06/21/2001
109999	Tetrahydrofuran	1.0 UG/L (U)	06/21/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/21/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
591786	2-Hexanone	2.5 UG/L (U)	06/21/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
75252	Bromoform	0.50 UG/L (U)	06/21/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/21/2001
67641	Acetone	2.5 UG/L (U)	06/21/2001
74953	Dibromomethane	0.50 UG/L (U)	06/21/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/21/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	06/21/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/21/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	06/21/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/21/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	06/21/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/21/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/21/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/21/2001
74839	Bromomethane	0.086 UG/L (JB)	06/21/2001
78933	MEK	2.5 UG/L (U)	06/21/2001
75003	Chloroethane	0.50 UG/L (U)	06/21/2001
74873	Chloromethane	1.0 UG/L (U)	06/21/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/21/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/21/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	06/21/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/21/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/21/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/21/2001
75092	Methylene Chloride	0.50 UG/L (U)	06/21/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	06/21/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/21/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/21/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 008 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/21/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/21/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/21/2001
108101	MIBK	2.5 UG/L (U)	06/21/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/21/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/21/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/21/2001
79016	Trichloroethene	0.50 UG/L (U)	06/21/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/21/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/21/2001
108907	Chlorobenzene	0.50 UG/L (U)	06/21/2001
67663	Chloroform	0.50 UG/L (U)	06/21/2001
98566	PCTFB	0.50 UG/L (U)	06/21/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/21/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	06/21/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 009 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 12:30:00 PM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-9

Laboratory Sample ID: I2001026589 COMPLETED
Standard Analysis: 210

Legal Seal: D094053 Intact: YES
Legal Seal: D094050 Intact: YES
Legal Seal: D094049 Intact: YES
Legal Seal: D094054 Intact: YES
Legal Seal: D094052 Intact: YES
Legal Seal: D094051 Intact: YES

Test/CAS# - Description		Reported Results	Completed
00951	FLUORIDE T	.25 MG/L	06/07/2001
00978H	ARSENIC R	5.9 UG/L	06/07/2001
00981H	SELENIUM R	<7 UG/L	06/07/2001
01000H	ARSENIC D	4.7 UG/L	06/07/2001
01025H	CADMIUM D	.32 UG/L	06/07/2001
01030H	CHROMIUM D	11.9 UG/L	06/07/2001
01049H	LEAD D	8.4 UG/L	06/07/2001
01113H	CADMIUM R	.38 UG/L	06/07/2001
01114H	LEAD TOT R	9.4 UG/L	06/07/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 009 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
00680	T ORG CARBON	4.8 MG/L	06/07/2001
00403	pH	7.3 pH units	06/06/2001
00410	ALKALINITY	184.0 MG/L	06/06/2001
00610A	AMMONIA-N T	<.02 MG/L	06/06/2001
00915A	CALCIUM D	58.2 MG/L	06/06/2001
00918A	CALCIUM R	58.5 MG/L	06/06/2001
00921A	MAGNESIUM R	17.7 MG/L	06/06/2001
00923A	SODIUM R	7.08 MG/L	06/06/2001
00925A	MAGNESIUM D	16.8 MG/L	06/06/2001
00930A	SODIUM D	7.1 MG/L	06/06/2001
00935A	POTASSIUM D	5.62 MG/L	06/06/2001
00939A	POTASSIUM R	6.38 MG/L	06/06/2001
00980A	IRON R	27000.0 UG/L	06/06/2001
01005A	BARIUM D	428.0 UG/L	06/06/2001
01009A	BARIUM R	469.0 UG/L	06/06/2001
01040A	COPPER D	172.0 UG/L	06/06/2001
01046A	IRON D	22600.0 UG/L	06/06/2001
01056A	MANGANESE D	1040.0 UG/L	06/06/2001
01075A	SILVER D	<10.0 UG/L	06/06/2001
01079A	SILVER R	<10.0 UG/L	06/06/2001
01090A	ZINC D	77.0 UG/L	06/06/2001
01094A	ZINC R	86.0 UG/L	06/06/2001
01119A	COPPER R	200.0 UG/L	06/06/2001
01123A	MANGANESE R	1160.0 UG/L	06/06/2001
00515	TDS @105 C	656 MG/L	06/08/2001
00940A	CHLORIDE	6. MG/L	06/08/2001
00620A	Nitrate-N	.42 MG/L	06/11/2001
82079	TURBIDITY	937. NTU	06/11/2001
00095	SPECIFIC CON	376. umhos/cm	06/15/2001
70353	T ORG HALIDE	8.5 UG/L	06/15/2001
00340	COD	36. MG/L	06/19/2001
00945A	SULFATE T	<20.0 MG/L	06/20/2001
32730D	Phenols-Dist	<5.0 UG/L	06/25/2001
01118H	CHROMIUM R	12.8 UG/L	06/07/2001
01145H	SELENIUM D	<7 UG/L	06/07/2001
71890X	MERCURY D	<1 UG/L	06/07/2001
71901X	MERCURY R	<1 UG/L	06/07/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 009 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 12:30:00 PM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-9

Laboratory Sample ID: O2001002403 COMPLETED
Suite: VOA-1

Legal Seal: D094048 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.50 UG/L (U)	06/22/2001
91203	Naphthalene	2.0 UG/L (U)	06/22/2001
95476	o-Xylene	0.50 UG/L (U)	06/22/2001
71432	Benzene	0.50 UG/L (U)	06/22/2001
100425	Styrene	0.50 UG/L (U)	06/22/2001
108883	Toluene	0.50 UG/L (U)	06/22/2001
108054	Vinyl Acetate	0.50 UG/L (U)	06/22/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	06/22/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	06/22/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 009 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	1.0 UG/L (U)	06/22/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/22/2001
75014	Chloroethene	0.50 UG/L (U)	06/22/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/22/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/22/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/22/2001
104518	n-Butylbenzene	2.0 UG/L (U)	06/22/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/22/2001
108861	Bromobenzene	0.50 UG/L (U)	06/22/2001
109999	Tetrahydrofuran	1.3 UG/L (JB)	06/22/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/22/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	06/22/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
591786	2-Hexanone	2.5 UG/L (U)	06/22/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/22/2001
75252	Bromoform	0.50 UG/L (U)	06/22/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/22/2001
67641	Acetone	50.0 UG/L (U)	06/22/2001
74953	Dibromomethane	0.50 UG/L (U)	06/22/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/22/2001
75694	Trichlorofluoromethane	1.0 UG/L (U)	06/22/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/22/2001
87616	1,2,3-Trichlorobenzene	1.0 UG/L (U)	06/22/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/22/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/22/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/22/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/22/2001
74839	Bromomethane	2.0 UG/L (U)	06/22/2001
78933	MEK	2.5 UG/L (U)	06/22/2001
75003	Chloroethane	0.50 UG/L (U)	06/22/2001
74873	Chloromethane	0.50 UG/L (U)	06/22/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/22/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/22/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	06/22/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/22/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/22/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/22/2001
75092	Methylene Chloride	1.0 UG/L (U)	06/22/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	06/22/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/22/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/22/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 009 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/22/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/22/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/22/2001
108101	MIBK	2.5 UG/L (U)	06/22/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/22/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/22/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/22/2001
79016	Trichloroethene	0.50 UG/L (U)	06/22/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/22/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/22/2001
108907	Chlorobenzene	0.50 UG/L (U)	06/22/2001
67663	Chloroform	0.50 UG/L (U)	06/22/2001
98566	PCTFB	0.10 UG/L (U)	06/22/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/22/2001
87683	Hexachlorobutadiene	2.0 UG/L (U)	06/22/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 010 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 01:00:00 PM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-6

Laboratory Sample ID: I2001026590 COMPLETED
Standard Analysis: 210

Legal Seal: D094057 Intact: YES
Legal Seal: D094060 Intact: YES
Legal Seal: D094058 Intact: YES
Legal Seal: D094059 Intact: YES
Legal Seal: D094056 Intact: YES
Legal Seal: D094061 Intact: YES

Test/CAS# - Description		Reported Results	Completed
00403	pH	7.4 pH units	06/06/2001
00410	ALKALINITY	222.0 MG/L	06/06/2001
00610A	AMMONIA-N T	<.02 MG/L	06/06/2001
00915A	CALCIUM D	58.7 MG/L	06/06/2001
00918A	CALCIUM R	59.4 MG/L	06/06/2001
00921A	MAGNESIUM R	21.5 MG/L	06/06/2001
00923A	SODIUM R	11.7 MG/L	06/06/2001
00925A	MAGNESIUM D	21.6 MG/L	06/06/2001
00930A	SODIUM D	11.7 MG/L	06/06/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 010 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
00935A	POTASSIUM D	5.3 MG/L	06/06/2001
00939A	POTASSIUM R	5.86 MG/L	06/06/2001
00980A	IRON R	6970.0 UG/L	06/06/2001
01005A	BARIUM D	404.0 UG/L	06/06/2001
01009A	BARIUM R	438.0 UG/L	06/06/2001
01040A	COPPER D	13.0 UG/L	06/06/2001
01046A	IRON D	5560.0 UG/L	06/06/2001
01056A	MANGANESE D	182.0 UG/L	06/06/2001
01075A	SILVER D	<10.0 UG/L	06/06/2001
01079A	SILVER R	<10.0 UG/L	06/06/2001
01090A	ZINC D	22.0 UG/L	06/06/2001
01094A	ZINC R	29.0 UG/L	06/06/2001
01119A	COPPER R	19.0 UG/L	06/06/2001
01123A	MANGANESE R	223.0 UG/L	06/06/2001
01113H	CADMIUM R	<.2 UG/L	06/07/2001
01114H	LEAD TOT R	4.4 UG/L	06/07/2001
01118H	CHROMIUM R	4.7 UG/L	06/07/2001
01145H	SELENIUM D	<7 UG/L	06/07/2001
71890X	MERCURY D	<1 UG/L	06/07/2001
71901X	MERCURY R	<1 UG/L	06/07/2001
00515	TDS @105 C	360 MG/L	06/08/2001
00940A	CHLORIDE	11. MG/L	06/08/2001
00620A	Nitrate-N	3.76 MG/L	06/11/2001
82079	TURBIDITY	128 NTU	06/11/2001
00095	SPECIFIC CON	508. umhos/cm	06/15/2001
70353	T ORG HALIDE	6.9 UG/L	06/15/2001
00340	COD	11. MG/L	06/19/2001
00945A	SULFATE T	<20.0 MG/L	06/20/2001
32730D	Phenols-Dist	<5.0 UG/L	06/25/2001
00680	T ORG CARBON	1.7 MG/L	06/07/2001
00951	FLUORIDE T	<0.20 MG/L	06/07/2001
00978H	ARSENIC R	<4.0 UG/L	06/07/2001
00981H	SELENIUM R	<7 UG/L	06/07/2001
01000H	ARSENIC D	<4.0 UG/L	06/07/2001
01025H	CADMIUM D	<.20 UG/L	06/07/2001
01030H	CHROMIUM D	<4 UG/L	06/07/2001
01049H	LEAD D	3.5 UG/L	06/07/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 010 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 01:00:00 PM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

MW-6

Laboratory Sample ID: O2001002404 COMPLETED
Suite: VOA-1

Legal Seal: D094055 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.50 UG/L (U)	06/22/2001
91203	Naphthalene	2.0 UG/L (U)	06/22/2001
95476	o-Xylene	0.50 UG/L (U)	06/22/2001
71432	Benzene	0.50 UG/L (U)	06/22/2001
100425	Styrene	0.50 UG/L (U)	06/22/2001
108883	Toluene	0.50 UG/L (U)	06/22/2001
108054	Vinyl Acetate	0.50 UG/L (U)	06/22/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	06/22/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	06/22/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 010 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	1.0 UG/L (U)	06/22/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/22/2001
75014	Chloroethene	0.50 UG/L (U)	06/22/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/22/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/22/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/22/2001
104518	n-Butylbenzene	2.0 UG/L (U)	06/22/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/22/2001
108861	Bromobenzene	0.50 UG/L (U)	06/22/2001
109999	Tetrahydrofuran	1.2 UG/L (JB)	06/22/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/22/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	06/22/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
591786	2-Hexanone	2.5 UG/L (U)	06/22/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/22/2001
75252	Bromoform	0.50 UG/L (U)	06/22/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/22/2001
67641	Acetone	50.0 UG/L (U)	06/22/2001
74953	Dibromomethane	0.50 UG/L (U)	06/22/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/22/2001
75694	Trichlorofluoromethane	1.0 UG/L (U)	06/22/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/22/2001
87616	1,2,3-Trichlorobenzene	1.0 UG/L (U)	06/22/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/22/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/22/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/22/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/22/2001
74839	Bromomethane	2.0 UG/L (U)	06/22/2001
78933	MEK	2.5 UG/L (U)	06/22/2001
75003	Chloroethane	0.50 UG/L (U)	06/22/2001
74873	Chloromethane	0.50 UG/L (U)	06/22/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/22/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/22/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	06/22/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/22/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/22/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/22/2001
75092	Methylene Chloride	1.0 UG/L (U)	06/22/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	06/22/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/22/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/22/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 010 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/22/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/22/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/22/2001
108101	MIBK	2.5 UG/L (U)	06/22/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/22/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/22/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/22/2001
79016	Trichloroethene	0.50 UG/L (U)	06/22/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/22/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/22/2001
108907	Chlorobenzene	0.50 UG/L (U)	06/22/2001
67663	Chloroform	0.50 UG/L (U)	06/22/2001
98566	PCTFB	0.10 UG/L (U)	06/22/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/22/2001
87683	Hexachlorobutadiene	2.0 UG/L (U)	06/22/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 011 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 01:30:00 PM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water /
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals, No filed filtering of dissolved metals was done.

Garage Well. Sample taken from garage tap.

Laboratory Sample ID: I2001026593 COMPLETED
Standard Analysis: 210

Legal Seal: D094066 Intact: YES
Legal Seal: D094067 Intact: YES
Legal Seal: D094064 Intact: YES
Legal Seal: D094063 Intact: YES
Legal Seal: D094068 Intact: YES
Legal Seal: D094065 Intact: YES

Test/CAS# - Description		Reported Results	Completed
00340	COD	12. MG/L	06/19/2001
00403	pH	7.3 pH units	06/06/2001
00410	ALKALINITY	276.0 MG/L	06/06/2001
00610A	AMMONIA-N T	<.02 MG/L	06/06/2001
00915A	CALCIUM D	75.6 MG/L	06/06/2001
00918A	CALCIUM R	79.0 MG/L	06/06/2001
00921A	MAGNESIUM R	34.6 MG/L	06/06/2001
00923A	SODIUM R	14.1 MG/L	06/06/2001
00925A	MAGNESIUM D	33.1 MG/L	06/06/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 011 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
00930A	SODIUM D	13.6 MG/L	06/06/2001
00935A	POTASSIUM D	1.18 MG/L	06/06/2001
00939A	POTASSIUM R	1.19 MG/L	06/06/2001
00980A	IRON R	41.0 UG/L	06/06/2001
01005A	BARIUM D	581.0 UG/L	06/06/2001
01009A	BARIUM R	604.0 UG/L	06/06/2001
01040A	COPPER D	<10.0 UG/L	06/06/2001
01046A	IRON D	36.0 UG/L	06/06/2001
01056A	MANGANESE D	<10.0 UG/L	06/06/2001
01075A	SILVER D	<10.0 UG/L	06/06/2001
01079A	SILVER R	<10.0 UG/L	06/06/2001
01090A	ZINC D	318.0 UG/L	06/06/2001
01094A	ZINC R	328.0 UG/L	06/06/2001
01119A	COPPER R	<10.0 UG/L	06/06/2001
01123A	MANGANESE R	<10.0 UG/L	06/06/2001
00680	T ORG CARBON	1.7 MG/L	06/07/2001
00951	FLUORIDE T	<0.20 MG/L	06/07/2001
00978H	ARSENIC R	<4.0 UG/L	06/07/2001
00981H	SELENIUM R	<7 UG/L	06/07/2001
01000H	ARSENIC D	<4.0 UG/L	06/07/2001
01025H	CADMIUM D	<.20 UG/L	06/07/2001
01030H	CHROMIUM D	<4 UG/L	06/07/2001
01049H	LEAD D	2.1 UG/L	06/07/2001
01113H	CADMIUM R	<.2 UG/L	06/07/2001
01114H	LEAD TOT R	2 UG/L	06/07/2001
01118H	CHROMIUM R	<4.0 UG/L	06/07/2001
01145H	SELENIUM D	<7 UG/L	06/07/2001
71890X	MERCURY D	<1 UG/L	06/07/2001
71901X	MERCURY R	<1 UG/L	06/07/2001
00515	TDS @105 C	284 MG/L	06/08/2001
00940A	CHLORIDE	49. MG/L	06/08/2001
00620A	Nitrate-N	2.49 MG/L	06/11/2001
82079	TURBIDITY	<1 NTU	06/11/2001
00095	SPECIFIC CON	691. umhos/cm	06/15/2001
70353	T ORG HALIDE	40.2 UG/L	06/15/2001
00945A	SULFATE T	<20.0 MG/L	06/20/2001
32730D	Phenols-Dist	5.78 UG/L	06/25/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 011 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 01:30:00 PM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Ground Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals, No filed filtering of dissolved metals was done.

Garage Well. Sample taken from garage tap.

Laboratory Sample ID: O2001002405 COMPLETED
Suite: VOA-1

Legal Seal: D094062 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.50 UG/L (U)	06/22/2001
91203	Naphthalene	2.0 UG/L (U)	06/22/2001
95476	o-Xylene	0.50 UG/L (U)	06/22/2001
71432	Benzene	0.50 UG/L (U)	06/22/2001
100425	Styrene	0.50 UG/L (U)	06/22/2001
108883	Toluene	0.50 UG/L (U)	06/22/2001
108054	Vinyl Acetate	0.50 UG/L (U)	06/22/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	06/22/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	06/22/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 011 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	1.0 UG/L (U)	06/22/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/22/2001
75014	Chloroethene	0.50 UG/L (U)	06/22/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/22/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/22/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/22/2001
104518	n-Butylbenzene	2.0 UG/L (U)	06/22/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/22/2001
108861	Bromobenzene	0.50 UG/L (U)	06/22/2001
109999	Tetrahydrofuran	2.8 UG/L (JB)	06/22/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/22/2001
156592	cis-1,2-Dichloroethene	12.4 UG/L	06/22/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
591786	2-Hexanone	2.5 UG/L (U)	06/22/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/22/2001
75252	Bromoform	0.50 UG/L (U)	06/22/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/22/2001
67641	Acetone	50.0 UG/L (U)	06/22/2001
74953	Dibromomethane	0.50 UG/L (U)	06/22/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/22/2001
75694	Trichlorofluoromethane	0.42 UG/L (J)	06/22/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/22/2001
87616	1,2,3-Trichlorobenzene	1.0 UG/L (U)	06/22/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/22/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/22/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/22/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/22/2001
74839	Bromomethane	2.0 UG/L (U)	06/22/2001
78933	MEK	2.5 UG/L (U)	06/22/2001
75003	Chloroethane	0.77 UG/L	06/22/2001
74873	Chloromethane	0.50 UG/L (U)	06/22/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/22/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/22/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	06/22/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/22/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/22/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/22/2001
75092	Methylene Chloride	1.0 UG/L (U)	06/22/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	06/22/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/22/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/22/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 011 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/22/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/22/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/22/2001
108101	MIBK	2.5 UG/L (U)	06/22/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/22/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/22/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/22/2001
79016	Trichloroethene	16.1 UG/L	06/22/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/22/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/22/2001
108907	Chlorobenzene	0.50 UG/L (U)	06/22/2001
67663	Chloroform	0.50 UG/L (U)	06/22/2001
98566	PCTFB	0.10 UG/L (U)	06/22/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/22/2001
87683	Hexachlorobutadiene	2.0 UG/L (U)	06/22/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 012 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 02:00:00 PM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Surface Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

Minister Creek Upstream. (SWD)

Laboratory Sample ID: I2001026594 COMPLETED
Standard Analysis: 210

Legal Seal: D094074 Intact: YES
Legal Seal: D094075 Intact: YES
Legal Seal: D094073 Intact: YES
Legal Seal: D094072 Intact: YES

Test/CAS# - Description		Reported Results	Completed
00340	COD	15. MG/L	06/19/2001
00403	pH	7.3 pH units	06/06/2001
00410	ALKALINITY	86.0 MG/L	06/06/2001
00610A	AMMONIA-N T	<.02 MG/L	06/06/2001
00915A	CALCIUM D	34.2 MG/L	06/06/2001
00918A	CALCIUM R	35.5 MG/L	06/06/2001
00921A	MAGNESIUM R	8.25 MG/L	06/06/2001
00923A	SODIUM R	23.3 MG/L	06/06/2001
00925A	MAGNESIUM D	7.78 MG/L	06/06/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 012 06/05/2001 Status: COMPLETED

Test/CAS# - Description		Reported Results	Completed
00930A	SODIUM D	22.6 MG/L	06/06/2001
00935A	POTASSIUM D	1.7 MG/L	06/06/2001
00939A	POTASSIUM R	1.84 MG/L	06/06/2001
00980A	IRON R	1050.0 UG/L	06/06/2001
01005A	BARIUM D	71.0 UG/L	06/06/2001
01009A	BARIUM R	74.0 UG/L	06/06/2001
01040A	COPPER D	<10.0 UG/L	06/06/2001
01046A	IRON D	999.0 UG/L	06/06/2001
01056A	MANGANESE D	50.0 UG/L	06/06/2001
01075A	SILVER D	<10.0 UG/L	06/06/2001
01079A	SILVER R	<10.0 UG/L	06/06/2001
01090A	ZINC D	<10.0 UG/L	06/06/2001
01094A	ZINC R	<10.0 UG/L	06/06/2001
01119A	COPPER R	<10.0 UG/L	06/06/2001
01123A	MANGANESE R	59.0 UG/L	06/06/2001
00680	T ORG CARBON	3.3 MG/L	06/07/2001
00951	FLUORIDE T	<0.20 MG/L	06/07/2001
00978H	ARSENIC R	<4.0 UG/L	06/07/2001
00981H	SELENIUM R	<7 UG/L	06/07/2001
01000H	ARSENIC D	<4.0 UG/L	06/07/2001
01025H	CADMIUM D	<.20 UG/L	06/07/2001
01030H	CHROMIUM D	<4 UG/L	06/07/2001
01049H	LEAD D	<1.0 UG/L	06/07/2001
01113H	CADMIUM R	<.2 UG/L	06/07/2001
01114H	LEAD TOT R	<1.0 UG/L	06/07/2001
01118H	CHROMIUM R	<4.0 UG/L	06/07/2001
01145H	SELENIUM D	<7 UG/L	06/07/2001
71890X	MERCURY D	<1 UG/L	06/07/2001
71901X	MERCURY R	<1 UG/L	06/07/2001
00515	TDS @105 C	724 MG/L	06/08/2001
00940A	CHLORIDE	45. MG/L	06/08/2001
00620A	Nitrate-N	1.30 MG/L	06/11/2001
82079	TURBIDITY	26.0 NTU	06/11/2001
00095	SPECIFIC CON	370. umhos/cm	06/15/2001
70353	T ORG HALIDE	10.9 UG/L	06/15/2001
00945A	SULFATE T	25.5 MG/L	06/20/2001
32730D	Phenols-Dist	<5.0 UG/L	06/25/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 012 06/05/2001 Status: COMPLETED

Collector: John Mital
Collected: 06/05/2001 02:00:00 PM

County: Montgomery State: PA
Municipality: Douglass Twp

BOYERTOWN SANI DSPL
300 MERKEL RD
GILBERTSVILLE PA 19525-9522

Facility/Permit ID: 100550 FIX ID: 263755
Facility: BOYERTOWN SANITARY DISPOSAL
Sub-Facility: 100550 FIX ID: 258142
Name: BOYERTOWN SANITARY DISPOSAL

Sample Medium: Water
Surface Water

Location: NOT INDICATED
Reason: Routine Sampling

VOA, Inorganics, Ammonia, Phenols, TOX, Metals

Dissolved metals is a duplicate of total metals. No field filtering of dissolved metals was done.

Minister Creek Upstream. (SWD)

Laboratory Sample ID: O2001002406 COMPLETED
Suite: VOA-1

Legal Seal: D094069 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.50 UG/L (U)	06/22/2001
91203	Naphthalene	2.0 UG/L (U)	06/22/2001
95476	o-Xylene	0.50 UG/L (U)	06/22/2001
71432	Benzene	0.50 UG/L (U)	06/22/2001
100425	Styrene	0.50 UG/L (U)	06/22/2001
108883	Toluene	0.50 UG/L (U)	06/22/2001
108054	Vinyl Acetate	0.50 UG/L (U)	06/22/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	06/22/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	06/22/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 012 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
120821	1,2,4-Trichlorobenzene	1.0 UG/L (U)	06/22/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	06/22/2001
75014	Chloroethene	0.50 UG/L (U)	06/22/2001
106467	1,4-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	06/22/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	06/22/2001
103651	n-Propylbenzene	0.50 UG/L (U)	06/22/2001
104518	n-Butylbenzene	2.0 UG/L (U)	06/22/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	06/22/2001
108861	Bromobenzene	0.50 UG/L (U)	06/22/2001
109999	Tetrahydrofuran	1.0 UG/L (JB)	06/22/2001
124481	Dibromochloromethane	0.50 UG/L (U)	06/22/2001
156592	cis-1,2-Dichloroethene	0.50 UG/L (U)	06/22/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
591786	2-Hexanone	2.5 UG/L (U)	06/22/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	06/22/2001
75252	Bromoform	0.50 UG/L (U)	06/22/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	06/22/2001
67641	Acetone	50.0 UG/L (U)	06/22/2001
74953	Dibromomethane	0.50 UG/L (U)	06/22/2001
75274	Bromodichloromethane	0.50 UG/L (U)	06/22/2001
75694	Trichlorofluoromethane	1.0 UG/L (U)	06/22/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	06/22/2001
87616	1,2,3-Trichlorobenzene	1.0 UG/L (U)	06/22/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	06/22/2001
95501	1,2-Dichlorobenzene	0.50 UG/L (U)	06/22/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	06/22/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	06/22/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	06/22/2001
74839	Bromomethane	2.0 UG/L (U)	06/22/2001
78933	MEK	2.5 UG/L (U)	06/22/2001
75003	Chloroethane	0.50 UG/L (U)	06/22/2001
74873	Chloromethane	0.50 UG/L (U)	06/22/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	06/22/2001
75150	Carbon Disulfide	0.50 UG/L (U)	06/22/2001
75343	1,1-Dichloroethane	0.50 UG/L (U)	06/22/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	06/22/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	06/22/2001
156605	trans-1,2-Dichloroethene	0.50 UG/L (U)	06/22/2001
75092	Methylene Chloride	1.0 UG/L (U)	06/22/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	06/22/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	06/22/2001
98066	Tert-Butylbenzene	0.50 UG/L (U)	06/22/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 012 06/05/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
100414	Ethylbenzene	0.50 UG/L (U)	06/22/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	06/22/2001
98828	Isopropylbenzene	0.50 UG/L (U)	06/22/2001
108101	MIBK	2.5 UG/L (U)	06/22/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	06/22/2001
127184	Tetrachloroethene	0.50 UG/L (U)	06/22/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	06/22/2001
79016	Trichloroethene	0.50 UG/L (U)	06/22/2001
108383	m/p-Xylene	1.0 UG/L (U)	06/22/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	06/22/2001
108907	Chlorobenzene	0.50 UG/L (U)	06/22/2001
67663	Chloroform	0.50 UG/L (U)	06/22/2001
98566	PCTFB	0.10 UG/L (U)	06/22/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	06/22/2001
87683	Hexachlorobutadiene	2.0 UG/L (U)	06/22/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Appendix C (Seep Sample Results)

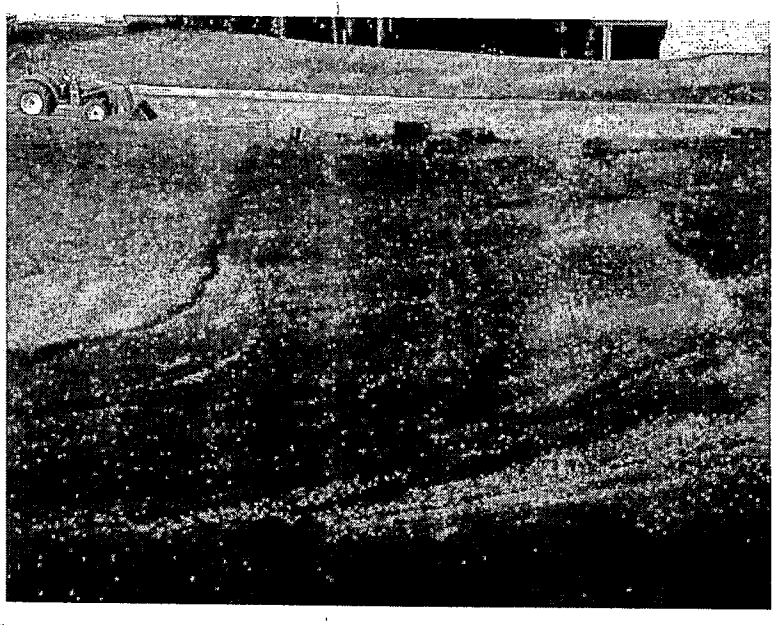


Figure 1 Seep area at 205 Hawthorne Avenue. This area has been graded by the builder.

Figure 2 Excavation on landfill property. Seep area is below tree line

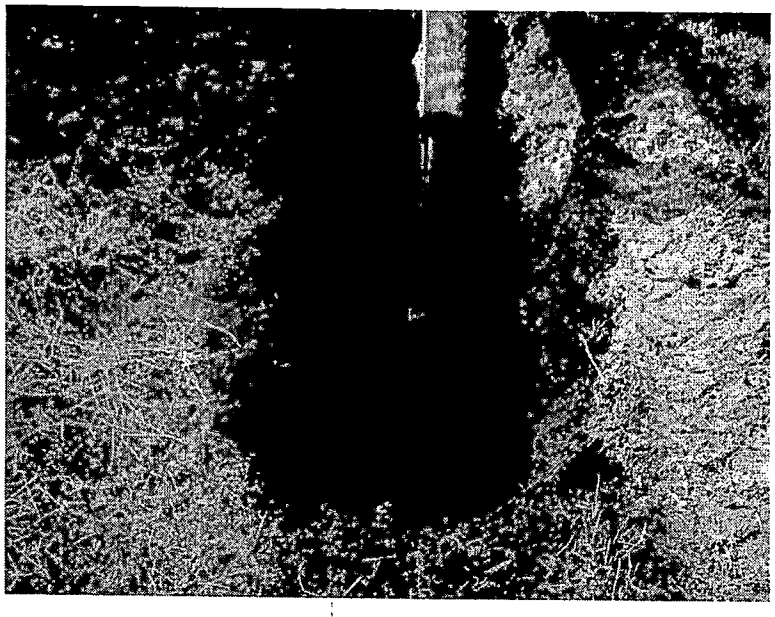


Figure 3 Excavation on landfill property.

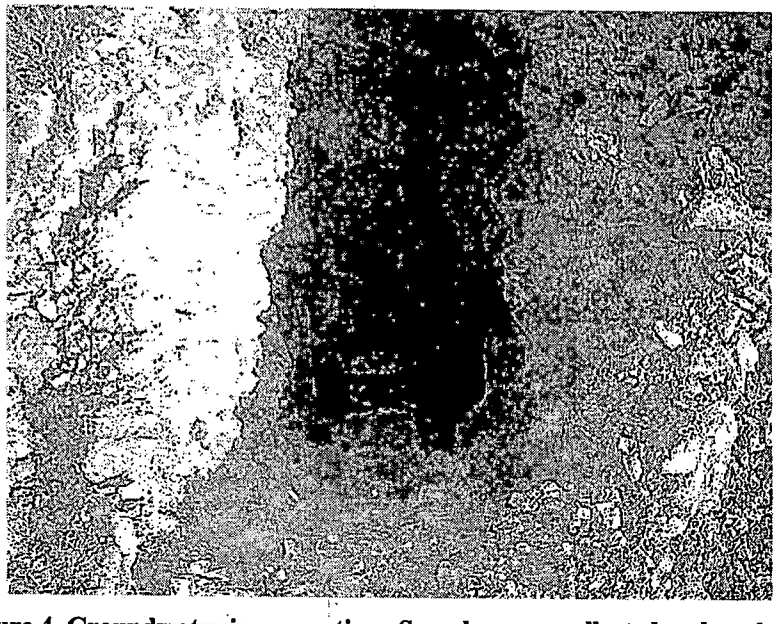


Figure 4 Groundwater in excavation. Samples were collected and analyzed.

Seep Sample collected @ 205 Hawthorne Ave
SOIL

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 101 04/26/2001 Status: COMPLETED

Collector: Gerald T Radomski
Collected: 04/26/2001 01:00:00 PM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: I2001019591 COMPLETED
Standard Analysis: 503

Legal Seal: D093755 Intact: YES

Test/CAS# - Description		Reported Results	Completed
40005K	MOISTURE	29.7 %	05/02/2001
40006K	SOLIDS	70.3 %	05/02/2001
46022K	Boron	<28.5 MG/KG	05/02/2001
46251K	MAGNESIUM	4666. MG/KG	05/02/2001
46252K	SODIUM	126. MG/KG	05/02/2001
46254K	IRON	30017. MG/KG	05/02/2001
46255K	MANGANESE	939. MG/KG	05/02/2001
46256K	CALCIUM	2027. MG/KG	05/02/2001
46257K	COPPER	24.1 MG/KG	05/02/2001
46258K	LEAD	21.9 MG/KG	05/02/2001
46259K	MERCURY	<0.071 MG/KG	05/03/2001
46307K	NICKEL	23.2 MG/KG	05/02/2001
46308K	CHROMIUM	26.2 MG/KG	05/02/2001
46309K	CADMIUM	<.7 MG/KG	05/02/2001
46900K	ALUMINUM	19703. MG/KG	05/02/2001
46901K	BARIUM	102. MG/KG	05/02/2001
46902K	SILVER	<.7 MG/KG	05/02/2001
46903K	ARSENIC	6.2 MG/KG	05/02/2001
46904K	SELENIUM	<5.0 MG/KG	05/02/2001
46905K	ZINC	68.0 MG/KG	05/02/2001
46908K	Cobalt	13.0 MG/KG	05/02/2001
46909K	ANTIMONY	<4.3 MG/KG	05/02/2001
46910K	BERYLLIUM	.9 MG/KG	05/02/2001
46911K	THALLIUM	<1.4 MG/KG	05/02/2001
46913K	VANADIUM	34.8 MG/KG	05/02/2001
80002K	Acid Digest	0 Each	05/02/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 101 04/26/2001 Status: COMPLETED

Collector: Gerald T Radomski
Collected: 04/26/2001 01:00:00 PM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: O2001001701 COMPLETED
Suite: VOA-1

Legal Seal: D093754 Intact: YES

Test/CAS#	Description	Reported Results	Completed
124481	Dibromochloromethane	293 UG/KG (U)	05/08/2001
156592	cis-1,2-Dichloroethene	293 UG/KG (U)	05/08/2001
541731	1,3-Dichlorobenzene	293 UG/KG (U)	05/08/2001
591786	2-Hexanone	1460 UG/KG (U)	05/08/2001
594207	2,2-Dichloropropane	293 UG/KG (U)	05/08/2001
75252	Bromoform	293 UG/KG (U)	05/08/2001
630206	1,1,1,2-Tetrachloroethane	293 UG/KG (U)	05/08/2001
67641	Acetone	750 UG/KG (J)	05/08/2001
74953	Dibromomethane	293 UG/KG (U)	05/08/2001
75274	Bromodichloromethane	293 UG/KG (U)	05/08/2001
75694	Trichlorofluoromethane	293 UG/KG (U)	05/08/2001
75718	Dichlorodifluorormethane	293 UG/KG (U)	05/08/2001
87616	1,2,3-Trichlorobenzene	293 UG/KG (U)	05/08/2001
95498	o-Chlorotoluene	293 UG/KG (U)	05/08/2001
95501	1,2-Dichlorobenzene	293 UG/KG (U)	05/08/2001
95636	1,2,4-Trimethylbenzene	293 UG/KG (U)	05/08/2001
96184	1,2,3-Trichloropropane	293 UG/KG (U)	05/08/2001
99876	4-Isopropyltoluene	293 UG/KG (U)	05/08/2001
74839	Bromomethane	293 UG/KG (U)	05/08/2001
78933	MEK	1460 UG/KG (U)	05/08/2001
75003	Chloroethane	293 UG/KG (U)	05/08/2001
100425	Styrene	293 UG/KG (U)	05/08/2001
108883	Toluene	293 UG/KG (U)	05/08/2001
108054	Vinyl Acetate	293 UG/KG (U)	05/08/2001
79345	1,1,2,2-Tetrachloroethane	293 UG/KG (U)	05/08/2001
79005	1,1,2-Trichloroethane	293 UG/KG (U)	05/08/2001
120821	1,2,4-Trichlorobenzene	293 UG/KG (U)	05/08/2001
96128	1,2-Dibromo-3-chloropropane	293 UG/KG (U)	05/08/2001
75014	Chloroethene	293 UG/KG (U)	05/08/2001
106467	1,4-Dichlorobenzene	293 UG/KG (U)	05/08/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 101 04/26/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
10061015	cis-1,3-Dichloropropene	293 UG/KG (U)	05/08/2001
10061026	trans-1,3-Dichloropropene	293 UG/KG (U)	05/08/2001
103651	n-Propylbenzene	293 UG/KG (U)	05/08/2001
104518	n-Butylbenzene	293 UG/KG (U)	05/08/2001
108678	1,3,5-Trimethylbenzene	293 UG/KG (U)	05/08/2001
108861	Bromobenzene	293 UG/KG (U)	05/08/2001
109999	Tetrahydrofuran	586 UG/KG (U)	05/08/2001
74873	Chloromethane	293 UG/KG (U)	05/08/2001
106434	p-Chlorotoluene	293 UG/KG (U)	05/08/2001
75150	Carbon Disulfide	293 UG/KG (U)	05/08/2001
75343	1,1-Dichloroethane	293 UG/KG (U)	05/08/2001
107062	1,2-Dichloroethane	293 UG/KG (U)	05/08/2001
75354	1,1-Dichloroethene	293 UG/KG (U)	05/08/2001
156605	trans-1,2-Dichloroethene	293 UG/KG (U)	05/08/2001
75092	Methylene Chloride	196 UG/KG (JB)	05/08/2001
78875	1,2-Dichloropropane	293 UG/KG (U)	05/08/2001
142289	1,3-Dichloropropane	293 UG/KG (U)	05/08/2001
98066	Tert-Butylbenzene	293 UG/KG (U)	05/08/2001
100414	Ethylbenzene	293 UG/KG (U)	05/08/2001
56235	Carbon Tetrachloride	293 UG/KG (U)	05/08/2001
98828	Isopropylbenzene	293 UG/KG (U)	05/08/2001
108101	MIBK	1460 UG/KG (U)	05/08/2001
135988	Sec-Butylbenzene	293 UG/KG (U)	05/08/2001
127184	Tetrachloroethene	293 UG/KG (U)	05/08/2001
71556	1,1,1-Trichloroethane	293 UG/KG (U)	05/08/2001
79016	Trichloroethene	293 UG/KG (U)	05/08/2001
108383	m/p-Xylene	586 UG/KG (U)	05/08/2001
563586	1,1-Dichloropropene	293 UG/KG (U)	05/08/2001
108907	Chlorobenzene	293 UG/KG (U)	05/08/2001
67663	Chloroform	293 UG/KG (U)	05/08/2001
98566	PCTFB	293 UG/KG (U)	05/08/2001
106934	1,2-Dibromoethane	293 UG/KG (U)	05/08/2001
87683	Hexachlorobutadiene	293 UG/KG (U)	05/08/2001
1634044	Methyl Tert-Butyl Ether	293 UG/KG (U)	05/08/2001
91203	Naphthalene	293 UG/KG (U)	05/08/2001
95476	o-Xylene	293 UG/KG (U)	05/08/2001
71432	Benzene	293 UG/KG (U)	05/08/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Seep Sample collected @ 205 Hawthorne Ave
SOIL

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 102 04/26/2001 Status: COMPLETED

Collector: Gerald T Radomski
Collected: 04/26/2001 01:30:00 PM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: I2001019592 COMPLETED
Standard Analysis: 503

Legal Seal: D093757 Intact: YES

Test/CAS# - Description		Reported Results	Completed
46902K	SILVER	<.7 MG/KG	05/02/2001
46903K	ARSENIC	6.1 MG/KG	05/02/2001
46904K	SELENIUM	<4.6 MG/KG	05/02/2001
46905K	ZINC	70.5 MG/KG	05/02/2001
46908K	Cobalt	16.1 MG/KG	05/02/2001
46909K	ANTIMONY	<4.0 MG/KG	05/02/2001
46910K	BERYLLIUM	.9 MG/KG	05/02/2001
46911K	THALLIUM	<1.3 MG/KG	05/02/2001
46901K	BARIUM	115. MG/KG	05/02/2001
46913K	VANADIUM	34.3 MG/KG	05/02/2001
80002K	Acid Digest	0 Each	05/02/2001
40005K	MOISTURE	24.1 %	05/02/2001
40006K	SOLIDS	75.9 %	05/02/2001
46022K	Boron	<26.4 MG/KG	05/02/2001
46251K	MAGNESIUM	5054. MG/KG	05/02/2001
46252K	SODIUM	146. MG/KG	05/02/2001
46254K	IRON	30638. MG/KG	05/02/2001
46255K	MANGANESE	982. MG/KG	05/02/2001
46256K	CALCIUM	2899. MG/KG	05/02/2001
46257K	COPPER	27.5 MG/KG	05/02/2001
46258K	LEAD	22.5 MG/KG	05/02/2001
46259K	MERCURY	<0.066 MG/KG	05/03/2001
46307K	NICKEL	26.0 MG/KG	05/02/2001
46308K	CHROMIUM	26.8 MG/KG	05/02/2001
46309K	CADMIUM	<.7 MG/KG	05/02/2001
46900K	ALUMINUM	19306. MG/KG	05/02/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 102 04/26/2001 Status: COMPLETED

Collector: Gerald T Radomski
Collected: 04/26/2001 01:30:00 PM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: O2001001702 COMPLETED
Suite: VOA-1

Legal Seal: D093756 Intact: YES
The analyte Bromomethane did not pass quality control requirements.

Test/CAS#	Description	Reported Results	Completed
78875	1,2-Dichloropropane	282 UG/KG (U)	05/08/2001
142289	1,3-Dichloropropane	282 UG/KG (U)	05/08/2001
98066	Tert-Butylbenzene	282 UG/KG (U)	05/08/2001
100414	Ethylbenzene	282 UG/KG (U)	05/08/2001
56235	Carbon Tetrachloride	282 UG/KG (U)	05/08/2001
98828	Isopropylbenzene	282 UG/KG (U)	05/08/2001
108101	MIBK	1410 UG/KG (U)	05/08/2001
135988	Sec-Butylbenzene	282 UG/KG (U)	05/08/2001
127184	Tetrachloroethene	282 UG/KG (U)	05/08/2001
71556	1,1,1-Trichloroethane	282 UG/KG (U)	05/08/2001
79016	Trichloroethene	282 UG/KG (U)	05/08/2001
108383	m/p-Xylene	563 UG/KG (U)	05/08/2001
563586	1,1-Dichloropropene	282 UG/KG (U)	05/08/2001
108907	Chlorobenzene	282 UG/KG (U)	05/08/2001
67663	Chloroform	282 UG/KG (U)	05/08/2001
75694	Trichlorofluoromethane	282 UG/KG (U)	05/08/2001
75718	Dichlorodifluorormethane	282 UG/KG (U)	05/08/2001
87616	1,2,3-Trichlorobenzene	282 UG/KG (U)	05/08/2001
95498	o-Chlorotoluene	282 UG/KG (U)	05/08/2001
95501	1,2-Dichlorobenzene	282 UG/KG (U)	05/08/2001
95636	1,2,4-Trimethylbenzene	282 UG/KG (U)	05/08/2001
96184	1,2,3-Trichloropropane	282 UG/KG (U)	05/08/2001
99876	4-Isopropyltoluene	282 UG/KG (U)	05/08/2001
74839	Bromomethane	47.9 UG/KG (J)	05/08/2001
78933	MEK	719 UG/KG (J)	05/08/2001
75003	Chloroethane	282 UG/KG (U)	05/08/2001
74873	Chloromethane	282 UG/KG (U)	05/08/2001
106434	p-Chlorotoluene	282 UG/KG (U)	05/08/2001
75150	Carbon Disulfide	282 UG/KG (U)	05/08/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 102 04/26/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
75343	1,1-Dichloroethane	282 UG/KG (U)	05/08/2001
107062	1,2-Dichloroethane	282 UG/KG (U)	05/08/2001
75354	1,1-Dichloroethene	282 UG/KG (U)	05/08/2001
156605	trans-1,2-Dichloroethene	282 UG/KG (U)	05/08/2001
75092	Methylene Chloride	233 UG/KG (JB)	05/08/2001
1634044	Methyl Tert-Butyl Ether	282 UG/KG (U)	05/08/2001
91203	Naphthalene	282 UG/KG (U)	05/08/2001
95476	o-Xylene	282 UG/KG (U)	05/08/2001
71432	Benzene	282 UG/KG (U)	05/08/2001
100425	Styrene	282 UG/KG (U)	05/08/2001
108883	Toluene	59.9 UG/KG (J)	05/08/2001
108054	Vinyl Acetate	282 UG/KG (U)	05/08/2001
79345	1,1,2,2-Tetrachloroethane	282 UG/KG (U)	05/08/2001
79005	1,1,2-Trichloroethane	282 UG/KG (U)	05/08/2001
98566	PCTFB	282 UG/KG (U)	05/08/2001
106934	1,2-Dibromoethane	282 UG/KG (U)	05/08/2001
87683	Hexachlorobutadiene	282 UG/KG (U)	05/08/2001
120821	1,2,4-Trichlorobenzene	282 UG/KG (U)	05/08/2001
96128	1,2-Dibromo-3-chloropropane	282 UG/KG (U)	05/08/2001
75014	Chloroethene	282 UG/KG (U)	05/08/2001
106467	1,4-Dichlorobenzene	282 UG/KG (U)	05/08/2001
10061015	cis-1,3-Dichloropropene	282 UG/KG (U)	05/08/2001
10061026	trans-1,3-Dichloropropene	282 UG/KG (U)	05/08/2001
103651	n-Propylbenzene	282 UG/KG (U)	05/08/2001
104518	n-Butylbenzene	282 UG/KG (U)	05/08/2001
108678	1,3,5-Trimethylbenzene	282 UG/KG (U)	05/08/2001
108861	Bromobenzene	282 UG/KG (U)	05/08/2001
109999	Tetrahydrofuran	563 UG/KG (U)	05/08/2001
124481	Dibromochloromethane	282 UG/KG (U)	05/08/2001
156592	cis-1,2-Dichloroethene	282 UG/KG (U)	05/08/2001
541731	1,3-Dichlorobenzene	282 UG/KG (U)	05/08/2001
591786	2-Hexanone	1410 UG/KG (U)	05/08/2001
594207	2,2-Dichloropropane	282 UG/KG (U)	05/08/2001
75252	Bromoform	282 UG/KG (U)	05/08/2001
630206	1,1,1,2-Tetrachloroethane	282 UG/KG (U)	05/08/2001
67641	Acetone	2420 UG/KG	05/08/2001
74953	Dibromomethane	282 UG/KG (U)	05/08/2001
75274	Bromodichloromethane	282 UG/KG (U)	05/08/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Seep Sample collected @ 205 Hawthorne Ave
Liquid

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 103 04/26/2001 Status: COMPLETED

Collector: Gerald T Radomski
Collected: 04/26/2001 02:00:00 PM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: I2001019584 COMPLETED
Standard Analysis: 210

Legal Seal: D093759 Intact: YES

Test/CAS# - Description	Reported Results	Completed
00095 SPECIFIC CON	Cancelled	05/21/2001
** Comment ** No Separate Sample Received		
00403 pH	Cancelled	05/21/2001
** Comment ** No Separate Sample Received		
00410 ALKALINITY	Cancelled	05/21/2001
** Comment ** No Separate Sample Received		
00610A AMMONIA-N T	Cancelled	05/22/2001
** Comment ** No Separate Sample Received		
00940A CHLORIDE	Cancelled	05/22/2001
** Comment ** No Separate Sample Received		
82079 TURBIDITY	Cancelled	05/21/2001
** Comment ** No Separate Sample Received		
32730D Phenols-Dist	Cancelled	06/01/2001
** Comment ** No Separate Sample Received		
00951 FLUORIDE T	Cancelled	06/05/2001
** Comment ** No Separate Sample Received		
00978H ARSENIC R	5.4 UG/L	04/27/2001
00981H SELENIUM R	<7 UG/L	04/27/2001
01113H CADMIUM R	<.2 UG/L	04/27/2001
01114H LEAD TOT R	4 UG/L	04/27/2001
01118H CHROMIUM R	<4.0 UG/L	04/27/2001
00340 COD	Cancelled	05/04/2001
** Comment ** No Separate Sample Received		

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 103 04/26/2001 Status: COMPLETED

Test/CAS# - Description	Reported Results	Completed
00515 TDS @105 C	226 MG/L	05/04/2001
00620A Nitrate-N	Cancelled	05/04/2001
** Comment ** No Separate Sample Received		
00915A CALCIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
00925A MAGNESIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
00930A SODIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
00935A POTASSIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01000H ARSENIC D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01005A BARIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01025H CADMIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01030H CHROMIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01040A COPPER D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01046A IRON D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01049H LEAD D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01056A MANGANESE D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01075A SILVER D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 103 04/26/2001 Status: COMPLETED

Test/CAS# - Description		Reported Results	Completed
01090A	ZINC D	Cancelled	05/23/2001
** Comment **	No Separate Sample Received		
01145H	SELENIUM D	Cancelled	05/23/2001
** Comment **	No Separate Sample Received		
00680	T ORG CARBON	Cancelled	05/10/2001
** Comment **	No Separate Sample Received		
00918A	CALCIUM R	192.0 MG/L	05/09/2001
00921A	MAGNESIUM R	31.7 MG/L	05/09/2001
00923A	SODIUM R	22.5 MG/L	05/09/2001
00939A	POTASSIUM R	3.11 MG/L	05/09/2001
00945A	SULFATE T	Cancelled	05/09/2001
** Comment **	No Separate Sample Received		
00980A	IRON R	29800.0 UG/L	05/09/2001
01009A	BARIUM R	475.0 UG/L	05/09/2001
01079A	SILVER R	<10.0 UG/L	05/09/2001
01094A	ZINC R	<10.0 UG/L	05/09/2001
01119A	COPPER R	<10.0 UG/L	05/09/2001
01123A	MANGANESE R	68000.0 UG/L	05/09/2001
71890X	MERCURY D	<1 UG/L	05/16/2001
71901X	MERCURY R	<1 UG/L	05/09/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 103 04/26/2001 Status: COMPLETED

Collector: Gerald T Radomski
Collected: 04/26/2001 02:00:00 PM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: O2001001703 COMPLETED
Suite: VOA-1

Legal Seal: D093758 Intact: YES

Test/CAS#	Description	Reported Results	Completed
108907	Chlorobenzene	1.8 UG/L	05/08/2001
67663	Chloroform	0.50 UG/L (U)	05/08/2001
98566	PCTFB	0.50 UG/L (U)	05/08/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	05/08/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	05/08/2001
1634044	Methyl Tert-Butyl Ether	0.51 UG/L	05/08/2001
91203	Naphthalene	0.50 UG/L (U)	05/08/2001
95476	o-Xylene	0.62 UG/L	05/08/2001
71432	Benzene	4.0 UG/L	05/08/2001
100425	Styrene	0.50 UG/L (U)	05/08/2001
108883	Toluene	7.2 UG/L	05/08/2001
108054	Vinyl Acetate	0.50 UG/L (U)	05/08/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	05/08/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	05/08/2001
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	05/08/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	05/08/2001
75014	Chloroethene	1.2 UG/L	05/08/2001
106467	1,4-Dichlorobenzene	0.21 UG/L (J)	05/08/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	05/08/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	05/08/2001
103651	n-Propylbenzene	0.50 UG/L (U)	05/08/2001
104518	n-Butylbenzene	0.50 UG/L (U)	05/08/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	05/08/2001
108861	Bromobenzene	0.50 UG/L (U)	05/08/2001
109999	Tetrahydrofuran	20.8 UG/L	05/08/2001
124481	Dibromochloromethane	0.50 UG/L (U)	05/08/2001
156592	cis-1,2-Dichloroethene	0.90 UG/L	05/08/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	05/08/2001
591786	2-Hexanone	2.5 UG/L (U)	05/08/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	05/08/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 103 04/26/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
75252	Bromoform	0.50 UG/L (U)	05/08/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	05/08/2001
67641	Acetone	9.6 UG/L	05/08/2001
74953	Dibromomethane	0.50 UG/L (U)	05/08/2001
75274	Bromodichloromethane	0.50 UG/L (U)	05/08/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	05/08/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	05/08/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	05/08/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	05/08/2001
95501	1,2-Dichlorobenzene	0.074 UG/L (J)	05/08/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	05/08/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	05/08/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	05/08/2001
74839	Bromomethane	0.50 UG/L (U)	05/08/2001
78933	MEK	4.2 UG/L	05/08/2001
75003	Chloroethane	0.32 UG/L (J)	05/08/2001
74873	Chloromethane	0.50 UG/L (U)	05/08/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	05/08/2001
75150	Carbon Disulfide	0.50 UG/L (U)	05/08/2001
75343	1,1-Dichloroethane	0.50 UG/L	05/08/2001
107062	1,2-Dichloroethane	0.16 UG/L (J)	05/08/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	05/08/2001
156605	trans-1,2-Dichloroethene	0.18 UG/L (J)	05/08/2001
75092	Methylene Chloride	0.50 UG/L (U)	05/08/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	05/08/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	05/08/2001
98066	Tert-Butylbenzene	0.10 UG/L (J)	05/08/2001
100414	Ethylbenzene	0.52 UG/L	05/08/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	05/08/2001
98828	Isopropylbenzene	0.11 UG/L (J)	05/08/2001
108101	MIBK	2.5 UG/L (U)	05/08/2001
135988	Sec-Butylbenzene	0.50 UG/L (U)	05/08/2001
127184	Tetrachloroethene	0.50 UG/L (U)	05/08/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	05/08/2001
79016	Trichloroethene	0.26 UG/L (J)	05/08/2001
108383	m/p-Xylene	0.097 UG/L (J)	05/08/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	05/08/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Seep Sample collected @ 205 Hawthorne Ave
liquid

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 104 04/26/2001 Status: COMPLETED

Collector: Gerald T Radomski
Collected: 04/26/2001 02:30:00 PM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: I2001019585 COMPLETED
Standard Analysis: 210

Legal Seal: D093761 Intact: YES

Test/CAS# - Description	Reported Results	Completed
00095 SPECIFIC CON	Cancelled	05/21/2001
** Comment ** No Separate Sample Received		
00403 pH	Cancelled	05/21/2001
** Comment ** No Separate Sample Received		
00410 ALKALINITY	Cancelled	05/21/2001
** Comment ** No Separate Sample Received		
82079 TURBIDITY	Cancelled	05/21/2001
** Comment ** No Separate Sample Received		
00610A AMMONIA-N T	Cancelled	05/22/2001
** Comment ** No Separate Sample Received		
00940A CHLORIDE	Cancelled	05/22/2001
** Comment ** No Separate Sample Received		
32730D Phenols-Dist	Cancelled	06/01/2001
** Comment ** No Separate Sample Received		
00951 FLUORIDE T	Cancelled	06/05/2001
** Comment ** No Separate Sample Received		
00978H ARSENIC R	10.3 UG/L	04/27/2001
00981H SELENIUM R	<7 UG/L	04/27/2001
01113H CADMIUM R	.3 UG/L	04/27/2001
01114H LEAD TOT R	19.8 UG/L	04/27/2001
01118H CHROMIUM R	13 UG/L	04/27/2001
00340 COD	Cancelled	05/04/2001
** Comment ** No Separate Sample Received		

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 104 04/26/2001 Status: COMPLETED

Test/CAS# - Description	Reported Results	Completed
00515 TDS @105 C	104 MG/L	05/04/2001
00620A Nitrate-N	Cancelled	05/04/2001
** Comment ** No Separate Sample Received		
01030H CHROMIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01040A COPPER D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01046A IRON D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01049H LEAD D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01056A MANGANESE D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01075A SILVER D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01090A ZINC D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01145H SELENIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
00915A CALCIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
00925A MAGNESIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
00930A SODIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
00935A POTASSIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01000H ARSENIC D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 104 04/26/2001 Status: COMPLETED

Test/CAS# - Description	Reported Results	Completed
01005A BARIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
01025H CADMIUM D	Cancelled	05/23/2001
** Comment ** No Separate Sample Received		
00680 T ORG CARBON	Cancelled	05/10/2001
** Comment ** No Separate Sample Received		
00918A CALCIUM R	178.0 MG/L	05/09/2001
00921A MAGNESIUM R	36.0 MG/L	05/09/2001
00923A SODIUM R	20.1 MG/L	05/09/2001
00939A POTASSIUM R	8.59 MG/L	05/09/2001
00945A SULFATE T	Cancelled	05/09/2001
** Comment ** No Separate Sample Received		
00980A IRON R	48900.0 UG/L	05/09/2001
01009A BARIUM R	708.0 UG/L	05/09/2001
01079A SILVER R	<10.0 UG/L	05/09/2001
01094A ZINC R	97.0 UG/L	05/09/2001
01119A COPPER R	43.0 UG/L	05/09/2001
01123A MANGANESE R	20600.0 UG/L	05/09/2001
71890X MERCURY D	Cancelled	05/10/2001
** Comment ** Cannot Confirm Dye		
71901X MERCURY R	<1 UG/L	05/09/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 104 04/26/2001 Status: COMPLETED

Collector: Gerald T Radomski
Collected: 04/26/2001 02:30:00 PM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: O2001001704 COMPLETED
Suite: VOA-1

Legal Seal: D093760 Intact: YES

Test/CAS#	Description	Reported Results	Completed
563586	1,1-Dichloropropene	0.50 UG/L (U)	05/08/2001
108907	Chlorobenzene	4.3 UG/L	05/08/2001
67663	Chloroform	0.50 UG/L (U)	05/08/2001
98566	PCTFB	0.50 UG/L (U)	05/08/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	05/08/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	05/08/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	05/08/2001
75150	Carbon Disulfide	0.50 UG/L (U)	05/08/2001
75343	1,1-Dichloroethane	0.35 UG/L (J)	05/08/2001
107062	1,2-Dichloroethane	0.088 UG/L (J)	05/08/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	05/08/2001
156605	trans-1,2-Dichloroethene	0.18 UG/L (J)	05/08/2001
75092	Methylene Chloride	0.12 UG/L (JB)	05/08/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	05/08/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	05/08/2001
98066	Tert-Butylbenzene	0.71 UG/L	05/08/2001
100414	Ethylbenzene	6.8 UG/L	05/08/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	05/08/2001
98828	Isopropylbenzene	1.6 UG/L	05/08/2001
108101	MIBK	2.5 UG/L (U)	05/08/2001
135988	Sec-Butylbenzene	0.14 UG/L (J)	05/08/2001
127184	Tetrachloroethene	0.081 UG/L (J)	05/08/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	05/08/2001
79016	Trichloroethene	0.16 UG/L (J)	05/08/2001
108383	m/p-Xylene	3.1 UG/L	05/08/2001
156592	cis-1,2-Dichloroethene	0.76 UG/L	05/08/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	05/08/2001
591786	2-Hexanone	2.5 UG/L (U)	05/08/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	05/08/2001
75252	Bromoform	0.50 UG/L (U)	05/08/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2137 104 04/26/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	05/08/2001
67641	Acetone	6.6 UG/L (B)	05/08/2001
74953	Dibromomethane	0.50 UG/L (U)	05/08/2001
75274	Bromodichloromethane	0.50 UG/L (U)	05/08/2001
75694	Trichlorofluoromethane	0.50 UG/L (U)	05/08/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	05/08/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	05/08/2001
95498	o-Chlorotoluene	0.13 UG/L (J)	05/08/2001
95501	1,2-Dichlorobenzene	1.0 UG/L	05/08/2001
95636	1,2,4-Trimethylbenzene	1.7 UG/L	05/08/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	05/08/2001
99876	4-Isopropyltoluene	0.15 UG/L (J)	05/08/2001
74839	Bromomethane	0.50 UG/L (U)	05/08/2001
78933	MEK	2.4 UG/L (J)	05/08/2001
75003	Chloroethane	0.40 UG/L (J)	05/08/2001
74873	Chloromethane	0.50 UG/L (U)	05/08/2001
71432	Benzene	4.2 UG/L	05/08/2001
100425	Styrene	0.50 UG/L (U)	05/08/2001
108883	Toluene	1.2 UG/L	05/08/2001
108054	Vinyl Acetate	0.50 UG/L (U)	05/08/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	05/08/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	05/08/2001
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	05/08/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	05/08/2001
75014	Chloroethene	0.73 UG/L	05/08/2001
106467	1,4-Dichlorobenzene	3.2 UG/L	05/08/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	05/08/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	05/08/2001
103651	n-Propylbenzene	0.69 UG/L	05/08/2001
104518	n-Butylbenzene	0.11 UG/L (J)	05/08/2001
108678	1,3,5-Trimethylbenzene	0.39 UG/L (J)	05/08/2001
108861	Bromobenzene	0.50 UG/L (U)	05/08/2001
109999	Tetrahydrofuran	11.6 UG/L	05/08/2001
124481	Dibromochloromethane	0.50 UG/L (U)	05/08/2001
1634044	Methyl Tert-Butyl Ether	0.46 UG/L (J)	05/08/2001
91203	Naphthalene	0.50 UG/L (U)	05/08/2001
95476	o-Xylene	5.1 UG/L	05/08/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

DelVal Soil & Environmental Consultants Inc.

Sky Run II • Suite A1 • 4050 Skyron Drive • Doylestown, PA 18901
Phone (215) 345-5545
Fax (215) 345-8138

FACSIMILE TRANSMISSION

Date: 5/23

To: Jerry Radomski

Fax #: (610) 832-6143

Fax #:

No. of Pages (including cover page): 2

Sepp Sample 205 Hawthorne Ave by builders consultant

Re: Green Briar / Gilbertsville L.F.

From: J. Dudisk

Comments: results look favorable however, note the BNA qualifier (attached).

If all pages have not been received, please call 345-5545.

Thank you,

DelVal Soil and Environmental Consultants, Inc.

_____ a hard copy will follow

X a hard copy will not follow

Form 5701 Rev 6/93

The Washington Group
Environmental Laboratory

F-32-1-2342

REPORT OF NONCONFORMANCES AND COMMENTS

This Form is used for reporting any nonconformances (anything unusual) encountered in the performance of the analysis. Also recorded are any comments about the nature of the sample that might aid in the interpretation of the data.

Laboratory Sample Number: 255375B

Summary Number: 61104

Date: 05/11/2001

Analyst: EAW

Analysis: EXT BNA H2O

Comments (including nonconformances):

The extraction for BNA was performed eight days past the 7 day holding time due to a laboratory login error. The client was contacted regarding the situation {Jack Dudas on 5/11/01 AM} and instructed to analyze for BNAs anyway. The analysis was made 'no charge' due to the lab error.

Approved:_____

The Washington Group International
Environmental Services Laboratory Data Summary 05/23/01 09:58:25
Summary # 51104 Project# 75701289 Del Val Soil & Env. Consultants

Log	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
255375A	Green Briar 93-79A Wate	G18	1,1,1-Trichloroethane	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	1,1,2,2-Tetrachloroethane	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	1,1,2-Trichloroethane	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	1,1-Dichloroethane	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	1,1-Dichloroethene	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	1,2-Dichloroethane	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	1,2-Dichloropropane	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	2-Butanone	ND	10	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	2-Hexanone	ND	10	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	4-Methyl-2-Pentanone	ND	10	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Acetone	17	10	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Benzene	3 J	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Bromodichloromethane	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Bromoform	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Bromomethane	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Carbon Disulfide	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Carbon Tetrachloride	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Chlorobenzene	3 J	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Chloroethane	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Chloroform	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Chloromethane	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Dibromochloromethane	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Ethylbenzene	3 J	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Methyl-t-butyl Ether	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Methylene Chloride	ND B	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Styrene	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Tetrachloroethene	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Toluene	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Trichloroethene	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Vinyl Chloride	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Xylenes-Meta&Para	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	Xylenes-Ortho	3 J	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A Wate	G18	cis-1,2-Dichloroethene	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS

The Washington Group International
Environmental Services Laboratory Data Summary 05/23/01 09:58:25
Summary # 61104 Project# 75701289 Del Val Soil & Env. Consultants

Log	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analys
255375A	Green Briar 93-79A	Wate G18	cis-1,3-Dichloropropene	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A	Wate G18	trans-1,2-Dichloroethene	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375A	Green Briar 93-79A	Wate G18	trans-1,3-Dichloropropene	ND	5	ug/L	04/26/2001	05/08/2001	05/08/2001	PSS
255375B	Green Briar 93-79A	Wate 757	EXT BNA H2O			COMPLETE	04/26/2001	05/11/2001	05/11/2001	WRS
255375B	Green Briar 93-79A	Wate G08	1,2,4-Trichlorobenzene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	1,2-Dichlorobenzene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	1,3-Dichlorobenzene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	1,4-Dichlorobenzene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2,4,5-Trichlorophenol	ND	26	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2,4,6-Trichlorophenol	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2,4-Dichlorophenol	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2,4-Dimethylphenol	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2,4-Dinitrophenol	ND	26	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2,4-Dinitrotoluene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2,6-Dinitrotoluene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2-Chloronaphthalene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2-Chlorophenol	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2-Methylnaphthalene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2-Methylphenol	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2-Nitroaniline	ND	26	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	2-Nitrophenol	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	3,3'-Dichlorobenzidine	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	3-Nitroaniline	ND	26	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	4,6-Dinitro-2-methylphenol	ND	26	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	4-Bromophenyl phenyl ether	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	4-Chloro-3-methylphenol	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	4-Chloroaniline	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	4-Chlorophenyl phenyl ether	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	4-Methylphenol	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	4-Nitroaniline	ND	26	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	4-Nitrophenol	ND	26	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Acenaphthene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Acenaphthylene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB

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Log	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analys
255375B	Green Briar 93-79A	Wate G08	Aniline	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Anthracene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Benz(a)anthracene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Benzo(a)pyrene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Benzo(b)fluoranthene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Benzo(ghi)perylene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Benzo(k)fluoranthene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Benzoic acid	ND	53	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Benzyl alcohol	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Bis(2-chloroethoxy)methane	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Bis(2-chloroethyl)ether	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Bis(2-chloroisopropyl) ethe	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Bis(2-ethylhexyl) phthalate	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Butyl benzyl phthalate	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Chrysene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Di-n-butyl phthalate	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Di-n-octyl phthalate	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Dibenz(a,h)anthracene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Dibenzofuran	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Diethyl phthalate	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Dimethyl phthalate	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Fluoranthene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Fluorene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Hexachlorobenzene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Hexachlorobutadiene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Hexachlorocyclopentadiene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Hexachloroethane	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Indeno(1,2,3-cd)pyrene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Isophorone	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	N-Nitrosodi-n-propylamine	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	N-Nitrosodiphenylamine	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Naphthalene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Nitrobenzene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Pentachlorophenol	ND	26	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A	Wate G08	Phenanthrene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB

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255375B	Green Briar 93-79A Wate	G08	Phenol	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375B	Green Briar 93-79A Wate	G08	Pyrene	ND	11	ug/L	04/26/2001	05/14/2001	05/14/2001	SAB
255375C	Green Briar 93-79A Wate	754A	EXT EPA8081 H2O			COMPLETE	04/26/2001	05/02/2001	05/02/2001	JMR
255375C	Green Briar 93-79A Wate	G14	Aroclor 1016	ND	0.35	ug/L	04/26/2001	05/09/2001	05/09/2001	JDP
255375C	Green Briar 93-79A Wate	G14	Aroclor 1221	ND	0.35	ug/L	04/26/2001	05/09/2001	05/09/2001	JDP
255375C	Green Briar 93-79A Wate	G14	Aroclor 1232	ND	0.35	ug/L	04/26/2001	05/09/2001	05/09/2001	JDP
255375C	Green Briar 93-79A Wate	G14	Aroclor 1242	ND	0.35	ug/L	04/26/2001	05/09/2001	05/09/2001	JDP
255375C	Green Briar 93-79A Wate	G14	Aroclor 1248	ND	0.35	ug/L	04/26/2001	05/09/2001	05/09/2001	JDP
255375C	Green Briar 93-79A Wate	G14	Aroclor 1254	ND	0.35	ug/L	04/26/2001	05/09/2001	05/09/2001	JDP
255375C	Green Briar 93-79A Wate	G14	Aroclor 1260	ND	0.29	ug/L	04/26/2001	05/09/2001	05/09/2001	JDP
255375C	Green Briar 93-79A Wate	G15TC	4,4'-DDD	ND	0.02	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	4,4'-DDE	ND	0.02	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	4,4'-DDT	ND	0.05	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Aldrin	ND	0.01	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	BHC-alpha	ND	0.01	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	BHC-beta	ND	0.01	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	BHC-delta	ND	0.01	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	BHC-gamma	ND	0.01	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Chlordane-alpha	ND	0.02	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Chlordane-gamma	ND	0.02	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Dieldrin	ND	0.02	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Endosulfan I	ND	0.01	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Endosulfan II	ND	0.05	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Endosulfan sulfate	ND	0.05	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Endrin	ND	0.02	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Endrin aldehyde	ND	0.05	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Endrin ketone	ND	0.05	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Heptachlor	ND	0.01	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Heptachlor epoxide	ND	0.01	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Methoxychlor	ND	0.1	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH
255375C	Green Briar 93-79A Wate	G15TC	Toxaphene	ND	0.6	ug/L	04/26/2001	05/02/2001	05/02/2001	MXH

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Log	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analys
255375D	Green Briar 93-79A	Wate 210IC	Ag Silver	ND<0.04		mg/l	04/26/2001	05/11/2001	05/11/2001	JDB
255375D	Green Briar 93-79A	Wate 215IC	As Arsenic	ND<0.06		mg/l	04/26/2001	05/11/2001	05/11/2001	JDB
255375D	Green Briar 93-79A	Wate 220IC	Be Beryllium	0.020		mg/l	04/26/2001	05/11/2001	05/11/2001	JDB
255375D	Green Briar 93-79A	Wate 222IC	Cd Cadmium	0.030		mg/l	04/26/2001	05/11/2001	05/11/2001	JDB
255375D	Green Briar 93-79A	Wate 227IC	Cr Chromium	0.26		mg/l	04/26/2001	05/11/2001	05/11/2001	JDB
255375D	Green Briar 93-79A	Wate 231IC	Cu Copper	0.51		mg/l	04/26/2001	05/11/2001	05/11/2001	JDB
255375D	Green Briar 93-79A	Wate 235VL	Hg Mercury	0.00031		mg/l	04/26/2001	05/04/2001	05/04/2001	DJN
255375D	Green Briar 93-79A	Wate 246IC	Ni Nickel	0.41		mg/l	04/26/2001	05/11/2001	05/11/2001	JDB
255375D	Green Briar 93-79A	Wate 249IC	Pb Lead	0.35		mg/l	04/26/2001	05/11/2001	05/11/2001	JDB
255375D	Green Briar 93-79A	Wate 252IC	Sb Antimony	0.044		mg/l	04/26/2001	05/17/2001	05/17/2001	JDB
255375D	Green Briar 93-79A	Wate 255IC	Se Selenium	ND<0.08		mg/l	04/26/2001	05/11/2001	05/11/2001	JDB
255375D	Green Briar 93-79A	Wate 270IC	Tl Thallium	ND<0.04		mg/l	04/26/2001	05/11/2001	05/11/2001	JDB
255375D	Green Briar 93-79A	Wate 280IC	Zn Zinc	1.1		mg/l	04/26/2001	05/11/2001	05/11/2001	JDB
255375E	Green Briar 93-79A	Wate 434	Phenolics	0.08		mg/l	04/26/2001	05/03/2001	05/03/2001	SKP
255375F	Green Briar 93-79A	Wate 310	Cyanide Total	ND (0.05)		mg/l	04/26/2001	05/04/2001	05/07/2001	GCW
255376A	Green Briar 93-79A	Soil 618	1,1,1-Trichloroethane	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A	Soil 618	1,1,2,2-Tetrachloroethane	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A	Soil 618	1,1,2-Trichloroethane	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A	Soil 618	1,1-Dichloroethane	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS

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Log	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analys
255376A	Green Briar 93-79A Soil	G18	1,1-Dichloroethene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	1,2-Dichloroethane	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	1,2-Dichloropropane	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	2-Butanone	6 J	13	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	2-Hexanone	ND	13	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	4-Methyl-2-Pentanone	ND	13	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Acetone	8Z	13	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Benzene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Bromodichloromethane	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Bromoform	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Bromomethane	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Carbon Disulfide	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Carbon Tetrachloride	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Chlorobenzene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Chloroethane	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Chloroform	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Chloromethane	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Dibromochloromethane	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Ethylbenzene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Methyl-t-butyl Ether	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Methylene Chloride	5 J B	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Styrene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Tetrachloroethene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Toluene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Trichloroethene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Vinyl Chloride	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Xylenes-Meta&Para	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	Xylenes-Ortho	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	cis-1,2-Dichloroethene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	cis-1,3-Dichloropropene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	trans-1,2-Dichloroethene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376A	Green Briar 93-79A Soil	G18	trans-1,3-Dichloropropene	ND	7	ug/kg-dry	04/26/2001	05/03/2001	05/03/2001	PSS
255376B	Green Briar 93-79A Soil	210IC	Ag Silver	ND<0.9		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB

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Log	Description	Code	Parameter	Result	Limit	Units	Sampled	Started	Complete	Analyst
255376B	Green Briar 93-79A Soil	215IC	As Arsenic	6.6		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB
255376B	Green Briar 93-79A Soil	220IC	Be Beryllium	1.20		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB
255376B	Green Briar 93-79A Soil	222IC	Cd Cadmium	1.3		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB
255376B	Green Briar 93-79A Soil	227IC	Cr Chromium	25		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB
255376B	Green Briar 93-79A Soil	231IC	Cu Copper	29		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB
255376B	Green Briar 93-79A Soil	236VS	Hg Mercury	ND<0.040		mg/kg-dry	04/26/2001	05/08/2001	05/08/2001	DJH
255376B	Green Briar 93-79A Soil	246IC	Ni Nickel	26		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB
255376B	Green Briar 93-79A Soil	249IC	Pb Lead	35		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB
255376B	Green Briar 93-79A Soil	252IC	Sb Antimony	2.1		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB
255376B	Green Briar 93-79A Soil	255IC	Se Selenium	ND<1		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB
255376B	Green Briar 93-79A Soil	270IC	Tl Thallium	ND<0.9		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB
255376B	Green Briar 93-79A Soil	280IC	Zn Zinc	77		mg/kg-dry	04/26/2001	05/02/2001	05/02/2001	JDB
255376B	Green Briar 93-79A Soil	S06	WATER BY EVAP	24.7		% as received	04/26/2001	05/07/2001	05/07/2001	MCH

Approved by: _____

Report Prep: _____

Results from ...
Soil & gw data

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 201 07/10/2001 Status: COMPLETED

Collector: John Mital
Collected: 07/10/2001 07:20:00 AM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: I2001032886 COMPLETED
Standard Analysis: 208

Legal Seal: D094404 Intact: YES
Legal Seal: D094405 Intact: YES
Legal Seal: D094397 Intact: YES

Test/CAS#	Description	Reported Results	Completed
00403	pH	6.3 pH units	07/11/2001
00410	ALKALINITY	462.0 MG/L	07/11/2001
00610A	AMMONIA-N T	.53 MG/L	07/11/2001
00680	T ORG CARBON	10.9 MG/L	07/12/2001
00940A	CHLORIDE	38. MG/L	07/12/2001
00951	FLUORIDE T	<0.20 MG/L	07/12/2001
00978H	ARSENIC R	10.4 UG/L	07/12/2001
00981H	SELENIUM R	<7 UG/L	07/12/2001
01113H	CADMIUM R	.37 UG/L	07/12/2001
01114H	LEAD TOT R	20.2 UG/L	07/12/2001
01118H	CHROMIUM R	18.7 UG/L	07/12/2001
00620A	Nitrate-N	<.04 MG/L	07/13/2001
00095	SPECIFIC CON	920. umhos/cm	07/17/2001
00918A	CALCIUM R	161.0 MG/L	07/17/2001
00921A	MAGNESIUM R	27.3 MG/L	07/17/2001
00923A	SODIUM R	20.0 MG/L	07/17/2001
00939A	POTASSIUM R	5.11 MG/L	07/17/2001
00980A	IRON R	28000.0 UG/L	07/17/2001
01009A	BARIUM R	1100.0 UG/L	07/17/2001
01079A	SILVER R	<10.0 UG/L	07/17/2001
01094A	ZINC R	98.0 UG/L	07/17/2001
01119A	COPPER R	48.0 UG/L	07/17/2001
01123A	MANGANESE R	11600.0 UG/L	07/17/2001
82079	TURBIDITY	3804. NTU	07/17/2001
00945A	SULFATE T	<20.0 MG/L	07/19/2001
71901X	MERCURY R	<1 UG/L	07/19/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 202 07/10/2001 Status: COMPLETED

Collector: John Mital
Collected: 07/10/2001 07:45:00 AM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: O2001003301 COMPLETED
Suite: VOA-1

Legal Seal: D094400 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether 20	0.92 UG/L (Q)	07/26/2001
91203	Naphthalene	0.50 UG/L (U)	07/26/2001
95476	o-Xylene	0.38 UG/L (J)	07/26/2001
71432	Benzene 5	7.0 UG/L (Q)	07/26/2001
100425	Styrene	0.50 UG/L (U)	07/26/2001
108883	Toluene	0.16 UG/L (J)	07/26/2001
108054	Vinyl Acetate	0.50 UG/L (U)	07/26/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	07/26/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	07/26/2001
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	07/26/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	07/26/2001
75014	Chloroethene	0.20 UG/L (J)	07/26/2001
106467	1,4-Dichlorobenzene	8.7 UG/L (Q)	07/26/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	07/26/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	07/26/2001
103651	n-Propylbenzene	0.69 UG/L (Q)	07/26/2001
104518	n-Butylbenzene	0.15 UG/L (J)	07/26/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	07/26/2001
108861	Bromobenzene	0.064 UG/L (J)	07/26/2001
109999	Tetrahydrofuran	10.4 UG/L (Q)	07/26/2001
124481	Dibromochloromethane	0.50 UG/L (U)	07/26/2001
156592	cis-1,2-Dichloroethene	0.99 UG/L (Q)	07/26/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	07/26/2001
591786	2-Hexanone	2.5 UG/L (U)	07/26/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	07/26/2001
75252	Bromoform	0.50 UG/L (U)	07/26/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	07/26/2001
67641	Acetone 3,700	5.6 UG/L (Q)	07/26/2001
74953	Dibromomethane	0.50 UG/L (U)	07/26/2001
75274	Bromodichloromethane	0.50 UG/L (U)	07/26/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 202 07/10/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
75694	Trichlorofluoromethane	0.50 UG/L (U)	07/26/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	07/26/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	07/26/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	07/26/2001
95501	1,2-Dichlorobenzene 600	2.5 UG/L (Q)	07/26/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	07/26/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	07/26/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	07/26/2001
74839	Bromomethane	0.50 UG/L (U)	07/26/2001
78933	MEK	2.5 UG/L (U)	07/26/2001
75003	Chloroethane	0.42 UG/L (J)	07/26/2001
74873	Chloromethane	0.50 UG/L (U)	07/26/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	07/26/2001
75150	Carbon Disulfide	0.21 UG/L (J)	07/26/2001
75343	1,1-Dichloroethane	0.46 UG/L (J)	07/26/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	07/26/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	07/26/2001
156605	trans-1,2-Dichloroethene	0.20 UG/L (J)	07/26/2001
75092	Methylene Chloride	0.14 UG/L (JB)	07/26/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	07/26/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	07/26/2001
98066	Tert-Butylbenzene	1.1 UG/L (Q)	07/26/2001
100414	Ethylbenzene	0.59 UG/L (Q)	07/26/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	07/26/2001
98828	Isopropylbenzene	1.6 UG/L (Q)	07/26/2001
108101	MIBK	2.5 UG/L (U)	07/26/2001
135988	Sec-Butylbenzene	0.31 UG/L (J)	07/26/2001
127184	Tetrachloroethene	0.50 UG/L (U)	07/26/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	07/26/2001
79016	Trichloroethene	0.10 UG/L (J)	07/26/2001
108383	m/p-Xylene	0.28 UG/L (J)	07/26/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	07/26/2001
108907	Chlorobenzene 55	9.0 UG/L (Q)	07/26/2001
67663	Chloroform	0.50 UG/L (U)	07/26/2001
98566	PCTFB	0.48 UG/L (J)	07/26/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	07/26/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	07/26/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 201 07/10/2001 Status: COMPLETED

Collector: John Mital
Collected: 07/10/2001 07:20:00 AM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: O2001003300 COMPLETED
Suite: VOA-1

Legal Seal: D094396 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.80 UG/L (Q)	07/26/2001
91203	Naphthalene	0.50 UG/L (U)	07/26/2001
95476	o-Xylene	0.44 UG/L (J)	07/26/2001
71432	Benzene 5	6.5 UG/L (Q)	07/26/2001
100425	Styrene	0.50 UG/L (U)	07/26/2001
108883	Toluene	0.13 UG/L (J)	07/26/2001
108054	Vinyl Acetate	0.50 UG/L (U)	07/26/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	07/26/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	07/26/2001
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	07/26/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	07/26/2001
75014	Chloroethene	0.26 UG/L (J)	07/26/2001
106467	1,4-Dichlorobenzene	9.6 UG/L (Q)	07/26/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	07/26/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	07/26/2001
103651	n-Propylbenzene	0.78 UG/L (Q)	07/26/2001
104518	n-Butylbenzene	0.18 UG/L (J)	07/26/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	07/26/2001
108861	Bromobenzene	0.075 UG/L (J)	07/26/2001
109999	Tetrahydrofuran	9.7 UG/L (Q)	07/26/2001
124481	Dibromochloromethane	0.50 UG/L (U)	07/26/2001
156592	cis-1,2-Dichloroethene	0.99 UG/L (Q)	07/26/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	07/26/2001
591786	2-Hexanone	2.5 UG/L (U)	07/26/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	07/26/2001
75252	Bromoform	0.50 UG/L (U)	07/26/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	07/26/2001
67641	Acetone	2.5 UG/L (U)	07/26/2001
74953	Dibromomethane	0.50 UG/L (U)	07/26/2001
75274	Bromodichloromethane	0.50 UG/L (U)	07/26/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 201 07/10/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
75694	Trichlorofluoromethane	0.50 UG/L (U)	07/26/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	07/26/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	07/26/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	07/26/2001
95501	1,2-Dichlorobenzene	2.6 UG/L (Q)	07/26/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	07/26/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	07/26/2001
99876	4-Isopropyltoluene	0.50 UG/L (U)	07/26/2001
74839	Bromomethane	0.50 UG/L (U)	07/26/2001
78933	MEK	2.5 UG/L (U)	07/26/2001
75003	Chloroethane	0.46 UG/L (J)	07/26/2001
74873	Chloromethane	0.50 UG/L (U)	07/26/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	07/26/2001
75150	Carbon Disulfide	0.50 UG/L (U)	07/26/2001
75343	1,1-Dichloroethane	0.47 UG/L (J)	07/26/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	07/26/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	07/26/2001
156605	trans-1,2-Dichloroethene	0.21 UG/L (J)	07/26/2001
75092	Methylene Chloride	0.12 UG/L (JB)	07/26/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	07/26/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	07/26/2001
98066	Tert-Butylbenzene	1.2 UG/L (Q)	07/26/2001
100414	Ethylbenzene	0.79 UG/L (Q)	07/26/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	07/26/2001
98828	Isopropylbenzene	1.8 UG/L (Q)	07/26/2001
108101	MIBK	2.5 UG/L (U)	07/26/2001
135988	Sec-Butylbenzene	0.36 UG/L (J)	07/26/2001
127184	Tetrachloroethene	0.080 UG/L (J)	07/26/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	07/26/2001
79016	Trichloroethene	0.11 UG/L (J)	07/26/2001
108383	m/p-Xylene	0.33 UG/L (J)	07/26/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	07/26/2001
108907	Chlorobenzene	9.8 UG/L (Q)	07/26/2001
67663	Chloroform	0.50 UG/L (U)	07/26/2001
98566	PCTFB	0.60 UG/L (Q)	07/26/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	07/26/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	07/26/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 103 07/10/2001 Status: COMPLETED

Collector: John Mital
Collected: 07/10/2001 08:00:00 AM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: O2001003299 COMPLETED
Suite: VOA-1

Legal Seal: D094402 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	0.85 UG/L (Q)	07/26/2001
91203	Naphthalene	0.50 UG/L (U)	07/26/2001
95476	o-Xylene	0.42 UG/L (J)	07/26/2001
71432	Benzene 5	8.2 UG/L (Q)	07/26/2001
100425	Styrene	0.50 UG/L (U)	07/26/2001
108883	Toluene	0.14 UG/L (J)	07/26/2001
108054	Vinyl Acetate	0.50 UG/L (U)	07/26/2001
79345	1,1,2,2-Tetrachloroethane	0.50 UG/L (U)	07/26/2001
79005	1,1,2-Trichloroethane	0.50 UG/L (U)	07/26/2001
120821	1,2,4-Trichlorobenzene	0.50 UG/L (U)	07/26/2001
96128	1,2-Dibromo-3-chloropropane	0.50 UG/L (U)	07/26/2001
75014	Chloroethene	0.25 UG/L (J)	07/26/2001
106467	1,4-Dichlorobenzene	9.7 UG/L (Q)	07/26/2001
10061015	cis-1,3-Dichloropropene	0.50 UG/L (U)	07/26/2001
10061026	trans-1,3-Dichloropropene	0.50 UG/L (U)	07/26/2001
103651	n-Propylbenzene	0.84 UG/L (Q)	07/26/2001
104518	n-Butylbenzene	0.17 UG/L (J)	07/26/2001
108678	1,3,5-Trimethylbenzene	0.50 UG/L (U)	07/26/2001
108861	Bromobenzene	0.076 UG/L (J)	07/26/2001
109999	Tetrahydrofuran	10.0 UG/L (Q)	07/26/2001
124481	Dibromochloromethane	0.50 UG/L (U)	07/26/2001
156592	cis-1,2-Dichloroethene	0.98 UG/L (Q)	07/26/2001
541731	1,3-Dichlorobenzene	0.50 UG/L (U)	07/26/2001
591786	2-Hexanone	2.5 UG/L (U)	07/26/2001
594207	2,2-Dichloropropane	0.50 UG/L (U)	07/26/2001
75252	Bromoform	0.50 UG/L (U)	07/26/2001
630206	1,1,1,2-Tetrachloroethane	0.50 UG/L (U)	07/26/2001
67641	Acetone	2.5 UG/L (U)	07/26/2001
74953	Dibromomethane	0.50 UG/L (U)	07/26/2001
75274	Bromodichloromethane	0.50 UG/L (U)	07/26/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 103 07/10/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
75694	Trichlorofluoromethane	0.50 UG/L (U)	07/26/2001
75718	Dichlorodifluorormethane	0.50 UG/L (U)	07/26/2001
87616	1,2,3-Trichlorobenzene	0.50 UG/L (U)	07/26/2001
95498	o-Chlorotoluene	0.50 UG/L (U)	07/26/2001
95501	1,2-Dichlorobenzene	2.7 UG/L (Q)	07/26/2001
95636	1,2,4-Trimethylbenzene	0.50 UG/L (U)	07/26/2001
96184	1,2,3-Trichloropropane	0.50 UG/L (U)	07/26/2001
99876	4-Isopropyltoluene	0.071 UG/L (J)	07/26/2001
74839	Bromomethane	0.090 UG/L (JB)	07/26/2001
78933	MEK	2.5 UG/L (U)	07/26/2001
75003	Chloroethane	0.50 UG/L (U)	07/26/2001
74873	Chloromethane	0.50 UG/L (U)	07/26/2001
106434	p-Chlorotoluene	0.50 UG/L (U)	07/26/2001
75150	Carbon Disulfide	0.70 UG/L (Q)	07/26/2001
75343	1,1-Dichloroethane	0.49 UG/L (J)	07/26/2001
107062	1,2-Dichloroethane	0.50 UG/L (U)	07/26/2001
75354	1,1-Dichloroethene	0.50 UG/L (U)	07/26/2001
156605	trans-1,2-Dichloroethene	0.23 UG/L (J)	07/26/2001
75092	Methylene Chloride	0.12 UG/L (JB)	07/26/2001
78875	1,2-Dichloropropane	0.50 UG/L (U)	07/26/2001
142289	1,3-Dichloropropane	0.50 UG/L (U)	07/26/2001
98066	Tert-Butylbenzene	1.2 UG/L (Q)	07/26/2001
100414	Ethylbenzene	0.65 UG/L (Q)	07/26/2001
56235	Carbon Tetrachloride	0.50 UG/L (U)	07/26/2001
98828	Isopropylbenzene	1.9 UG/L (Q)	07/26/2001
108101	MIBK	2.5 UG/L (U)	07/26/2001
135988	Sec-Butylbenzene	0.37 UG/L (J)	07/26/2001
127184	Tetrachloroethene	0.074 UG/L (J)	07/26/2001
71556	1,1,1-Trichloroethane	0.50 UG/L (U)	07/26/2001
79016	Trichloroethene	0.11 UG/L (J)	07/26/2001
108383	m/p-Xylene	0.27 UG/L (J)	07/26/2001
563586	1,1-Dichloropropene	0.50 UG/L (U)	07/26/2001
108907	Chlorobenzene	10.6 UG/L (Q)	07/26/2001
67663	Chloroform	0.50 UG/L (U)	07/26/2001
98566	PCTFB	0.63 UG/L (Q)	07/26/2001
106934	1,2-Dibromoethane	0.50 UG/L (U)	07/26/2001
87683	Hexachlorobutadiene	0.50 UG/L (U)	07/26/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 101 07/10/2001 Status: COMPLETED

Collector: John Mital
Collected: 07/10/2001 07:00:00 AM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: O2001003297 COMPLETED
Suite: VOA-1

Legal Seal: D094395 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	268 UG/KG (U)	07/27/2001
91203	Naphthalene	268 UG/KG (U)	07/27/2001
95476	o-Xylene	268 UG/KG (U)	07/27/2001
71432	Benzene	268 UG/KG (U)	07/27/2001
100425	Styrene	268 UG/KG (U)	07/27/2001
108883	Toluene	268 UG/KG (U)	07/27/2001
108054	Vinyl Acetate	268 UG/KG (U)	07/27/2001
79345	1,1,2,2-Tetrachloroethane	268 UG/KG (U)	07/27/2001
79005	1,1,2-Trichloroethane	268 UG/KG (U)	07/27/2001
120821	1,2,4-Trichlorobenzene	268 UG/KG (U)	07/27/2001
96128	1,2-Dibromo-3-chloropropane	268 UG/KG (U)	07/27/2001
75014	Chloroethene	268 UG/KG (U)	07/27/2001
106467	1,4-Dichlorobenzene	50.2 UG/KG (J)	07/27/2001
10061015	cis-1,3-Dichloropropene	268 UG/KG (U)	07/27/2001
10061026	trans-1,3-Dichloropropene	268 UG/KG (U)	07/27/2001
103651	n-Propylbenzene	268 UG/KG (U)	07/27/2001
104518	n-Butylbenzene	268 UG/KG (U)	07/27/2001
108678	1,3,5-Trimethylbenzene	268 UG/KG (U)	07/27/2001
108861	Bromobenzene	268 UG/KG (U)	07/27/2001
109999	Tetrahydrofuran	537 UG/KG (U)	07/27/2001
124481	Dibromochloromethane	268 UG/KG (U)	07/27/2001
156592	cis-1,2-Dichloroethene	268 UG/KG (U)	07/27/2001
541731	1,3-Dichlorobenzene 60	29.2 UG/KG (J)	07/27/2001
591786	2-Hexanone	1340 UG/KG (U)	07/27/2001
594207	2,2-Dichloropropane	268 UG/KG (U)	07/27/2001
75252	Bromoform	268 UG/KG (U)	07/27/2001
630206	1,1,1,2-Tetrachloroethane	268 UG/KG (U)	07/27/2001
67641	Acetone	469 UG/KG (J)	07/27/2001
74953	Dibromomethane	268 UG/KG (U)	07/27/2001
75274	Bromodichloromethane	268 UG/KG (U)	07/27/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 101 07/10/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
75694	Trichlorofluoromethane	268 UG/KG (U)	07/27/2001
75718	Dichlorodifluorormethane	268 UG/KG (U)	07/27/2001
87616	1,2,3-Trichlorobenzene	268 UG/KG (U)	07/27/2001
95498	o-Chlorotoluene	268 UG/KG (U)	07/27/2001
95501	1,2-Dichlorobenzene 60 mg/kg	27.4 UG/KG (J)	07/27/2001
95636	1,2,4-Trimethylbenzene	268 UG/KG (U)	07/27/2001
96184	1,2,3-Trichloropropane	268 UG/KG (U)	07/27/2001
99876	4-Isopropyltoluene	268 UG/KG (U)	07/27/2001
74839	Bromomethane	268 UG/KG (U)	07/27/2001
78933	MEK	1340 UG/KG (U)	07/27/2001
75003	Chloroethane	268 UG/KG (U)	07/27/2001
74873	Chloromethane	268 UG/KG (U)	07/27/2001
106434	p-Chlorotoluene	268 UG/KG (U)	07/27/2001
75150	Carbon Disulfide	268 UG/KG (U)	07/27/2001
75343	1,1-Dichloroethane	268 UG/KG (U)	07/27/2001
107062	1,2-Dichloroethane	268 UG/KG (U)	07/27/2001
75354	1,1-Dichloroethene	268 UG/KG (U)	07/27/2001
156605	trans-1,2-Dichloroethene	268 UG/KG (U)	07/27/2001
75092	Methylene Chloride	368 UG/KG (B)	07/27/2001
78875	1,2-Dichloropropane	268 UG/KG (U)	07/27/2001
142289	1,3-Dichloropropane	268 UG/KG (U)	07/27/2001
98066	Tert-Butylbenzene	268 UG/KG (U)	07/27/2001
100414	Ethylbenzene	268 UG/KG (U)	07/27/2001
56235	Carbon Tetrachloride	268 UG/KG (U)	07/27/2001
98828	Isopropylbenzene	268 UG/KG (U)	07/27/2001
108101	MIBK	1340 UG/KG (U)	07/27/2001
135988	Sec-Butylbenzene	268 UG/KG (U)	07/27/2001
127184	Tetrachloroethene	268 UG/KG (U)	07/27/2001
71556	1,1,1-Trichloroethane	268 UG/KG (U)	07/27/2001
79016	Trichloroethene	268 UG/KG (U)	07/27/2001
108383	m/p-Xylene	537 UG/KG (U)	07/27/2001
563586	1,1-Dichloropropene	268 UG/KG (U)	07/27/2001
108907	Chlorobenzene 5.5	25.8 UG/KG (J)	07/27/2001
67663	Chloroform	268 UG/KG (U)	07/27/2001
98566	PCTFB	268 UG/KG (U)	07/27/2001
106934	1,2-Dibromoethane	268 UG/KG (U)	07/27/2001
87683	Hexachlorobutadiene	268 UG/KG (U)	07/27/2001

ORGANICS LABORATORY QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantification limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 25% difference between the results obtained from the primary and confirmation columns for dual column analysis methods. (ie, pesticides, triazines, PCB's, etc). The reported value is the average of the two results.

Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 102 07/10/2001 Status: COMPLETED

Collector: John Mital
Collected: 07/10/2001 07:30:00 AM

County: NOT INDICATED State:
Municipality: NOT INDICATED

Location: NOT INDICATED
Reason: Routine Sampling

Laboratory Sample ID: O2001003298 COMPLETED
Suite: VOA-1

Legal Seal: D094399 Intact: YES

Test/CAS#	Description	Reported Results	Completed
1634044	Methyl Tert-Butyl Ether	261 UG/KG (U)	07/27/2001
91203	Naphthalene	261 UG/KG (U)	07/27/2001
95476	o-Xylene	261 UG/KG (U)	07/27/2001
71432	Benzene	261 UG/KG (U)	07/27/2001
100425	Styrene	261 UG/KG (U)	07/27/2001
108883	Toluene	261 UG/KG (U)	07/27/2001
108054	Vinyl Acetate	261 UG/KG (U)	07/27/2001
79345	1,1,2,2-Tetrachloroethane	261 UG/KG (U)	07/27/2001
79005	1,1,2-Trichloroethane	261 UG/KG (U)	07/27/2001
120821	1,2,4-Trichlorobenzene	261 UG/KG (U)	07/27/2001
96128	1,2-Dibromo-3-chloropropane	261 UG/KG (U)	07/27/2001
75014	Chloroethene	261 UG/KG (U)	07/27/2001
106467	1,4-Dichlorobenzene	261 UG/KG (U)	07/27/2001
10061015	cis-1,3-Dichloropropene	261 UG/KG (U)	07/27/2001
10061026	trans-1,3-Dichloropropene	261 UG/KG (U)	07/27/2001
103651	n-Propylbenzene	261 UG/KG (U)	07/27/2001
104518	n-Butylbenzene	261 UG/KG (U)	07/27/2001
108678	1,3,5-Trimethylbenzene	261 UG/KG (U)	07/27/2001
108861	Bromobenzene	261 UG/KG (U)	07/27/2001
109999	Tetrahydrofuran	522 UG/KG (U)	07/27/2001
124481	Dibromochloromethane	261 UG/KG (U)	07/27/2001
156592	cis-1,2-Dichloroethene	261 UG/KG (U)	07/27/2001
541731	1,3-Dichlorobenzene	261 UG/KG (U)	07/27/2001
591786	2-Hexanone	1310 UG/KG (U)	07/27/2001
594207	2,2-Dichloropropane	261 UG/KG (U)	07/27/2001
75252	Bromoform	261 UG/KG (U)	07/27/2001
630206	1,1,1,2-Tetrachloroethane	261 UG/KG (U)	07/27/2001
67641	Acetone	1310 UG/KG (U)	07/27/2001
74953	Dibromomethane	261 UG/KG (U)	07/27/2001
75274	Bromodichloromethane	261 UG/KG (U)	07/27/2001

Analytical Report For
Land Recycling & Waste Management

Sample ID: 2124 102 07/10/2001 Status: COMPLETED

Test/CAS#	Description	Reported Results	Completed
75694	Trichlorofluoromethane	261 UG/KG (U)	07/27/2001
75718	Dichlorodifluorormethane	261 UG/KG (U)	07/27/2001
87616	1,2,3-Trichlorobenzene	261 UG/KG (U)	07/27/2001
95498	o-Chlorotoluene	261 UG/KG (U)	07/27/2001
95501	1,2-Dichlorobenzene	261 UG/KG (U)	07/27/2001
95636	1,2,4-Trimethylbenzene	261 UG/KG (U)	07/27/2001
96184	1,2,3-Trichloropropane	261 UG/KG (U)	07/27/2001
99876	4-Isopropyltoluene	261 UG/KG (U)	07/27/2001
74839	Bromomethane	48.4 UG/KG (JB)	07/27/2001
78933	MEK	1310 UG/KG (U)	07/27/2001
75003	Chloroethane	261 UG/KG (U)	07/27/2001
74873	Chloromethane	261 UG/KG (U)	07/27/2001
106434	p-Chlorotoluene	261 UG/KG (U)	07/27/2001
75150	Carbon Disulfide	261 UG/KG (U)	07/27/2001
75343	1,1-Dichloroethane	261 UG/KG (U)	07/27/2001
107062	1,2-Dichloroethane	261 UG/KG (U)	07/27/2001
75354	1,1-Dichloroethene	261 UG/KG (U)	07/27/2001
156605	trans-1,2-Dichloroethene	261 UG/KG (U)	07/27/2001
75092	Methylene Chloride	307 UG/KG (B)	07/27/2001
78875	1,2-Dichloropropane	261 UG/KG (U)	07/27/2001
142289	1,3-Dichloropropane	261 UG/KG (U)	07/27/2001
98066	Tert-Butylbenzene	261 UG/KG (U)	07/27/2001
100414	Ethylbenzene	261 UG/KG (U)	07/27/2001
56235	Carbon Tetrachloride	261 UG/KG (U)	07/27/2001
98828	Isopropylbenzene	261 UG/KG (U)	07/27/2001
108101	MIBK	1310 UG/KG (U)	07/27/2001
135988	Sec-Butylbenzene	261 UG/KG (U)	07/27/2001
127184	Tetrachloroethene	261 UG/KG (U)	07/27/2001
71556	1,1,1-Trichloroethane	261 UG/KG (U)	07/27/2001
79016	Trichloroethene	261 UG/KG (U)	07/27/2001
108383	m/p-Xylene	522 UG/KG (U)	07/27/2001
563586	1,1-Dichloropropene	261 UG/KG (U)	07/27/2001
108907	Chlorobenzene	261 UG/KG (U)	07/27/2001
67663	Chloroform	261 UG/KG (U)	07/27/2001
98566	PCTFB	261 UG/KG (U)	07/27/2001
106934	1,2-Dibromoethane	261 UG/KG (U)	07/27/2001
87683	Hexachlorobutadiene	261 UG/KG (U)	07/27/2001

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Q - This flag identifies the average of multiple results from multiple analysis, or the average of the averages of dual column analysis methods.

_ - (Underline) - The compound is present at the amount reported. No flag.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.