DEPARTMENT OF THE AIR FORCE
27TH SPECIAL OPERATIONS CIVIL ENGINEER SQUADRON (AFSOC)
CANNON AIR FORCE BASE NEW MEXICO

Brandy L. Chavez
Environmental Chief 27 SOCES/CEIE
402 S. Chindit Way
Cannon AFB NM 88103

RECEIVED
OCT 23 2015
NMED
Hazardous Waste Bureau

Mr. John Kieling
Chief Hazardous Waste Bureau
New Mexico Environment Department
P. O. Box 26110
1190 St Francis Drive
Santa Fe NM 87502

Dear Mr. Kieling,

This letter is in response to the 3 June 15 letter entitled "Second Disapproval Revised Final Risk Screening Evaluation for Solid Waste Management Unit (SWMU) 127, Petroleum, Oil, and Lubricants (POL) Wash Pad at Facility 4095." Cannon AFB has reviewed the comments and submits this Response to the Second Disapproval letter. Per the letter, this submission includes the revised Report, Response-to-Comments table, and redline-strikeout version of the report.

If you have any questions regarding this letter, please contact me at (575) 904-6747.

Sincerely,

Brandy L. Chavez

BRANDY L. CHAVEZ

3 Attachments:
Revised Report,
Response-to-Comments table, and
Redline-strikeout version of the Report

cc:

(w/o Atch)	(w/ Atch)	(w/ CD)
Mr. Dave Cobrain and	Mr. Gabriel Acevedo	Mr. Chuck Hendrickson
Ms. Neelam Dhawan		
Hazardous Waste Bureau	Hazardous Waste Bureau	USEPA Region 6 (6PD-F)
2905 Rodeo Park Drive East, Building 1	121 Tijeras Dr. NE, Ste. 1000	1445 Ross Ave, Ste 1200
Santa Fe NM 87505-6303	Albuquerque NM 87102-3400	Dallas TX 75202-2750

Response to NMED June 3, 2015 Letter Re: *SECOND DISAPPROVAL REVISED FINAL RISK SCREENING EVALUATION FOR SOLID WASTE MANAGEMENT UNIT (SWMU) 127, PETROLEUM, OIL, AND LUBRICANTS (POL) WASH PAD AT FACILITY 4095, NOVEMBER 2014 CANNON AIR FORCE BASE, NEW MEXICO EPA ID # NM7572124454 HWB-CAFB-14-005*			
Comment No.	**NMED Comments**	**Cannon Response**	**Section/Page Reference in Revised Letter**
Note: After review of the NMED comments contained in the letter referenced above, the Air Force has decided to revise the letter to include an industrial exposure scenario in the evaluation and will request corrective action complete with controls on the basis of that evaluation. The responses to the NMED comments provided below should be evaluated in that context, as some of the comments are no longer directly applicable to the scenarios being used to justify the conclusion of the document.			
1	95% Upper Confidence Limit It was noted that an estimate of the average concentration (i.e., 95% upper confidence limit [UCL]) for trichloroethene was used as an input concentration for estimating risks and hazards for vapor intrusion in the J&E model. Typically, maximum detected concentrations are appropriate for use in the Johnson and Ettinger (J&E) soil gas model. Due to a lack of written guidance on the appropriateness of using 95% UCLs for input concentrations in the soil-gas model, the U.S. EPA's EPA vapor intrusion support line was contacted (note: the name and location/State of the facility was not provided). The EPA concurred that there was insufficient justification to support the use of a 95% UCL for input concentrations in the J&E model and indicated that it was likely the vapor points have different spatial relationships with the location of the subsurface vapor source rendering an average not representative. Therefore, maximum detected concentrations in soil gas must be used as input concentrations. Revise the Report to include risk and hazard calculations using maximum detected concentrations in soil gas for model input values. As noted in the NMED's current (2014) *Risk Assessment Guidance for Site Investigations and Remediation,* and following (draft) EPA guidance, the trend is away from the J&E model and toward the use of the Vapor Intrusion Screening Levels (VISLs), lines of evidence, and additional data collection.	Concur. It should be noted that the maximum detected concentration of TCE was initially used in the J&E Model (see page 5 of the Report), and a 95% UCL was only used for this VOC in soil vapor in a refined assessment during the uncertainty analysis in Section 2.8.1 (see page 8 of the Report) in order to consider cumulative risks if future residents were only exposed to COPCs in surface soil (not total soil) and soil vapor. The use of a 95% UCL for soil vapor has been dropped from the Report, as a conservative approach, as recommended. The letter will be revised to include a non-residential (industrial) exposure scenario. Estimated risks for a future industrial scenario have been emphasized in the Letter Report, in order to provide support for site closure under this scenario.	Section 2.8.2 / Page 8
2	Previous NOD The Permittees did not adequately address several comments from the original NOD dated August 7, 2014. The following are some of the more important comments that received inadequate treatment: a) NMED's NOD Comment 4 stated in part, "Since it has been shown that vapor intrusion is a complete pathway, and in compliance with both EPA and NMED	The methodology used for soil gas sample collection has been added to the Letter Report	Section 2.5 /

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	guidance, additional characterization is required using active soil gas ... and subsequent risk screening/analyses of the data." In response to the NOD Comment Number 4, the Permittee agreed to collect soil gas samples in order to quantify risks and hazards associated with the vapor intrusion pathway. The methodology for collecting the soil gas samples was not discussed and it is not known whether the samples were passive or active soil gas samples; given that the results are provided as concentrations per mass, it is assumed the data are from active soil gas. Consistent with EPA and NMED's current (2014) Risk Assessment Guidance for Site Investigations and Remediation, active soil gas samples are required for quantitative risk assessments for the vapor intrusion pathway. The Permittee must provide information on the sample collection methods used for collection of the soil gas samples (active or passive) and justification as to whether the soil gas samples are of adequate quality for use in risk assessment. As shown on Figure 1 of the Report, ten locations were sampled for soil gas on the western portion of the site, while only one location (SV-01) was sampled for soil gas on the eastern portion of the site. Section 2.8.3 of the Report indicates that this approach was selected because the western portion of the site had the majority of volatile organic compound (VOC) contamination. Since the highest detected soil gas for some constituents was on the eastern portion of the site, it is not clear that the extent of VOC contamination at the site has been defined. Provide additional analyses, either quantitatively through the collection of additional soil gas samples or qualitatively through further investigation of site history, how one sample adequately characterizes soil gas contamination on the eastern portion of the site. Also, determine whether data gaps exist that need to be investigated to determine the extent of contamination.	(active soil gas sampling was used, and is of adequate quality for use in risk assessment). While it is true that 6 of the 26 detected VOCs had the highest measured concentration in the sample collected from the eastern portion of the site (as shown on page 9 of the Letter Report), the next highest concentration (from the western side of the site) had 95%, 86%, 54%, 96%, 58%, and 50% of the highest concentration. In addition, all of these six VOCs (collected on the eastern side of the site) had estimated risks or hazards that were orders of magnitude below NMED thresholds of concern (compared with much greater risks and hazards for the samples collected on the western portion of the site). As such, delineation of vapor detections well below the threshold of concern is unwarranted. The soil gas samples were collected to evaluate the previously detected VOC concentrations in soil and were focused on the areas where the highest concentrations in soil were present. Based on this information, additional site characterization of the eastern portion of the site is not required, as the sampling appropriately focused on the western portion of the site.	Page 5

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	b) NMED's NOD Comment 5 stated in part, "Given the history of this site (sand trap and leach field for the refueling truck wash rack), there is potential for PAHs to be present based on historical activities (oil and other fluids washed off the vehicles, washing particles from tires, etc.). Revise the risk screening Report to include risks from all detected P AHs." In response to the NOD Comment Number 5, the Permittee collected four background samples and analyzed for polycyclic aromatic hydrocarbons (PAHs). Based on the results, background tolerance values (BTVs) were calculated. In looking at the background sample locations on Figures I and 2 and background data in Appendix C of the Report, sample locations SB19 and SB22, which are located adjacent to what appears to be a parking lot west of the site, had significantly higher levels of PAHs (several detections were greater than NMED soil screening levels). Conversely, background sample locations SB20 and SB21, which were collected adjacent to a road east of the site, had significantly lower levels of PAHs (all detections were below NMED soil screening levels). If site PAH concentrations are attributable to background, it can be inferred that the elevated concentrations at the site are a result of PAH migration from parking lot runoff west of the site. However, as shown on Figures 1 and 2 of the Report, the sample locations nearest the parking lot (locations 12704 and SB11-SB15) had lower detected concentrations of PAHs than other sample locations farther away from the parking lot (12711 and 12705, for example). The background investigation does not discuss surface water flow migration paths or whether the site is downgradient from the parking lot. Nor are there sufficient data to show a migration trend from the suspected source(s) to the site. As such, the background data and information provided do not sufficiently demonstrate that site concentrations of PAHs are related to background sources. As shown on Figures 1 and 2 of the Report, all four of the background samples were collected directly adjacent to asphalt surfaces where the expected PAH concentrations would be highest. These background locations may not be representative of site conditions since most of the site area and	As site closure under an industrial land use scenario will attain risk and hazard thresholds (without attributing PAHs to anthropogenic background), closure of the site with controls is not dependent on the PAH sampling and discussion of this issue has been moved to the Uncertainty Section of the Report..	Section 2.2 / Page 3 and Section 2.8.1 / Page 7

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	site samples are not located directly adjacent to asphalt surfaces. A more effective approach would have been to collect some additional samples showing the concentration trend from the source moving toward the site. Additionally, the sample size of four is inadequate for calculating meaningful BTVs. While it is possible to calculate BTVs with small data sets containing as few as three samples, these results are not considered representative and reliable enough to make cleanup or remediation decisions. EPA's (2013) ProUCL guidance recommends a minimum sample set size of 10 to 15 for each background data set, but more are preferable. NMED's (2014) Risk Assessment Guidance for Site Investigations and Remediation requires a minimum sample set size of 10 in order to calculate BTVs. In addition, it was noted that many of the calculated upper tolerance limits (UTLs) shown on Table 3 are significantly greater than the maximum detected background concentrations. While it is possible for UTLs to be greater that background, significant differences (more than 1.5 times the maximum) are an indication that the UTL is based on either the accommodation of low probability outliers (which may or may not be attributable to the background population), highly skewed data sets, and/or inadequate sample size. The UTLs listed in Table 3 are consistently 2.8-2.9 times higher than the maximum; this is mostly likely due to inadequate data size. Additional background samples for PAHs at SWMU-127 must be collected. In addition, if the Permittee chooses to proceed with this approach, provide information on the surface features and surface water flow direction, etc, at the site to help justify that the concentrations at the site could be related to parking lot runoff.		

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	c) NMED's NOD Comment 6 stated in part, "In determining the upper confidence level of the mean (UCL), it is not clear how nondetects were handled. Non-etects (censored datasets) should be evaluated following the appropriate methodology outlined in US EPA's Pro UCL Technical Guide. Discuss how non-detects were handled, and if simple substitution methods were applied, revise the UCL calculations in accordance with methods recommended in Pro UCL (regression on order)." Although the methods for handling nondetects in calculating exposure-point concentrations (EPCs) were correct, an EPC (based on an upper-confidence limit [UCL]) was calculated for ethyl benzene in soil, which had only two detections in the dataset. As discussed in US EPA's (2013) ProUCL Version 5.0.00 Technical Guide, upper confidence limits should only be calculated for data sets that meet the minimum requirements for calculating UCLs. The minimum requirements for calculating UCLs are: 1) each data set must contain at least eight samples (i.e., n≥8) for the analyte being evaluated; and 2) there must be a minimum of five detections (i.e., n≥5 detected observations) for the analyte being evaluated. Although it is possible to calculate UCLs with small datasets and low frequencies of detection, these estimates are not considered reliable and representative enough to make defensible and correct cleanup and remediation decisions (US EPA, 2013). Therefore, a UCL calculated based on only two detections is not considered to be representative and reliable enough and the maximum detected concentration for ethylbenzene should be used in the risk assessment calculations. Revise the risk assessment to utilize the maximum detected concentration for ethyl benzene in the risk assessment and eliminate the use of the UCL as an exposure point concentration. Update the cumulative risks (Table 7) accordingly.	The maximum detected concentration has been conservatively used for ethylbenzene, as recommended.	Section 2.3 / Page 4
3	Table 2, Cumulative Risk and Hazard Calculations for Organics in Soil for SWMU 127 In Table 2, the soil screening levels are designated as either carcinogenic or noncarcinogenic for each constituent and are given the same designation for both	Comment noted. Table 2 has been revised using the current versions of NMED (2014) and EPA (2015). Tetrachloroethylene and methylene chloride SSLs now appear to both be based on the non-cancer endpoint, and the table has been	Table 2

Response to NMED June 3, 2015 Letter Re: *SECOND DISAPPROVAL REVISED FINAL RISK SCREENING EVALUATION FOR SOLID WASTE MANAGEMENT UNIT (SWMU) 127, PETROLEUM, OIL, AND LUBRICANTS (POL) WASH PAD AT FACILITY 4095, NOVEMBER 2014 CANNON AIR FORCE BASE, NEW MEXICO EPA ID # NM7572124454 HWB-CAFB-14-005*			
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	residential and industrial soil screening levels. However, screening levels for some constituents are based on different endpoints for residential versus industrial. Two examples of this are tetrachloroethylene and methylene chloride whose residential screening levels are based on noncarcinogenic endpoints while industrial screening levels are based on carcinogenic endpoints. Therefore, the industrial carcinogenic risk estimate is slightly underestimated, while the hazard quotient is slightly overestimated. It is recognized that this would not significantly affect the results of the risk assessment and as such, revisions are not required. However, ensure endpoints are tabulated correctly in future assessments.	revised accordingly.	

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4	Table 7, Cumulative Risks and Hazards, Future Residential Land Use Scenario, All Media, SWMU 127, and Appendix 8, Johnson & Ettinger Vapor Intrusion Model Input and Output Files As stated in the risk assessment, US EPA's (2003) J&E model was used to calculate risks and hazards from inhalation of indoor air. A review of the data grouping and model input parameters revealed several inconsistencies including the following: • A default indoor air exchange rate of0.25 hr~1 is recommended in EPA's User's Guide to the Johnson and Ettinger model, but a less conservative exchange rate of 0.50 hr"1 was applied for the 10 feet below ground surface (ft bgs) dataset. • The Report indicates that default soil input parameters were based on a soil type of "sand", however some of the input parameters (e.g., stratum A soil total porosity and stratum A soil water filled porosity) are not consistent with a soil type of .. sand" and the values selected for these parameters are less conservative. The soil type at SWMU·127 is not discussed and it is not known whether the selected input parameters are appropriate. • Soil-gas data were grouped according to depth and risks and hazards were calculated separately for 5 and 10ft bgs. The greater of the two calculated risks and hazards was included in the cumulative risk estimate. Maximum detected concentrations, regardless of sampling depth, must be utilized as input concentrations in the model to calculate cumulative risks and hazards. • 2-Hexanone was omitted from the risk assessment calculations. This constituent is volatile, has published EPA inhalation toxicity data and should have been included in the hazard index calculations. • A 95% UCL exposure point concentration for trichloroethene and ethyl benzene was utilized as an input concentration in the J&E soil gas model. Maximum detected concentrations in soil gas must be used as input	Inputs to the J&M Model have been reviewed, and revised as needed. The soil type is sand, and this information has been clarified in the Report. The VOC 2-hexanone has been added to the J&E Model, based on available chemical transport properties, and risks and hazards have been estimated. Regarding use of 95% UCL EPCs as J&E Model input, please see response to General Comment No. 1. Regarding use of soil vapor results from the 5 and 10 foot bgs sample depths, it is unclear why NMED is requesting that the maximum detected concentration result from either depth must be used in the J& E Model. It is possible that while a 10 foot sample may have a greater VOC concentration compared with a sample from 5 feet, the additional attenuation that is modeled to occur as vapor vertically migrates 10 feet may greatly exceed the attenuation modeled for the 5 foot sample result. Comparing the estimated risks for each VOC, at the 5 foot and 10 foot depths, and conservatively selecting the higher of the two risk results (as was done in the Risk Evaluation), ensures that estimated indoor air risks are appropriately maximized. These comparisons have been more clearly shown in the revised Report, and a new summary table (Table 6) uses the maximum risk and/or	Section 2.5 / Page 5, Table 6, and Appendix B

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	concentrations in the soil gas model (see Comment 1). Because of these inconsistencies, risk and hazard estimates for the vapor intrusion pathway have been underestimated. Revise the risk and hazard estimates for vapor intrusion via use of the J&E soil gas model by using the default recommended air exchange rate; discussing the soil type and using appropriate input values for that soil type; and using all appropriate soil gas concentrations. Revise Table 7 displaying the cumulative risks. If revised risk and hazard estimates are above NMED target levels, additional refinement of the assessment using site-specific parameters and collection of additional data may be required. Following the 2014 NMED Soil Screening Guidance, multiple lines of evidence must be developed to support a refined and technically defensible site model and a thorough characterization of potential subsurface vapor sources must be conducted to refine the screening assessment. If results still indicate excess risk and/or hazard, implementation of remedial action or site controls may be required.	hazard result to estimate VI exposure.	
5	Current Vapor Intrusion Screening Levels and Methodology NMED's Comment: At the time this report was written, use of the J&E model was an acceptable method for evaluating vapor intrusion. Because the J&E model is no longer recommended for initial screening assessments for the vapor intrusion pathway, risks and hazards via soil gas intrusion were calculated for informational purposes and shown in the following tables using current NMED (2014) vapor intrusion screening levels (VISLs) and methodology: [*Table omitted for brevity*] If NMED's current (2014) methodology were applied, hazard estimates using current methodology and VISLs would be above the NMED target levels, indicating that further evaluation may be warranted for the vapor intrusion pathway at SWMU-127. The exceedances are a result of detected concentrations of trichloroethene. If current guidance were to be followed, further evaluation would be necessary which may include further sampling and a weight of evidence	Comment noted (revisions not required).	None

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	analysis. However, since the risk assessment was conducted prior to the release of NMED's (2014) methodology and guidance, use the J&E model is deemed appropriate for use at SWMU-127 with the recommended revisions noted in the above comments. No response is required for this comment.		
6	Table 8, Soil Leaching Evaluation - Organics at SWMU 127 NMED's Comment: In Table 8 of the Report, some of the soil screening levels presented for the soil to groundwater pathway are not consistent with the values listed in Table A-1 of NMED Risk Assessment Guidance for Site Investigations and Remediation (2012) for the following constituents: 2-butanone, carbon tetrachloride, 1,1-dichloroethene (appears to be a unit conversion error), acenaphthene, and di-n-butyl phthalate (NMED soil screening levels are available). It is acknowledged that these inconsistencies were minor and did not affect the results of the soil-to-groundwater evaluation. No revision is necessary.	Comment noted (revisions not required).	None

CB&I Federal Services LLC
One Westchase Center
10777 Westheimer, Suite 170
Houston, Texas 77042
Tel: 713 243-7095
www.CBI.com

October 22, 2015

Mr. John Kieling, Chief
Hazardous Waste Bureau (HWB)
New Mexico Environment Department (NMED)
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: ~~Revised~~Revision 2 Final Risk Screening Evaluation for Solid Waste Management Unit (SWMU) 127,
Petroleum, Oil, and Lubricants (POL) Wash Pad at Facility 4095, December 2013
Cannon Air Force Base (AFB), New Mexico EPA ID #NM7572124454

Dear Mr. Kieling:

The purpose of the second revision of this revised letter is to present the results of a final risk screening for Solid Waste Management Unit (SWMU) 127, the Petroleum, Oil, and Lubricants (POL) Wash Pad at Cannon Air Force Base (AFB) and to address New Mexico Environment Department (NMED) review comments dated August 7, 2014~~.~~, and follow-on comments dated June 3, 2015. The screening presented in this letter includes both industrial and residential exposure scenarios, as well as exposure via inhalation of vapors, as requested in the NMED letter to Ronald Lancaster~~,~~ (Cannon AFB 27th Special Operations Civil Engineer Squadron [27SOCES/CEI]), dated 22 June 2010.

1.0 Background

In a 2007 letter regarding NMED's review of the Corrective Measures Study (CMS), NMED requested an evaluation of the vapor intrusion pathway for volatile organic compounds (VOCs) at SWMU 127. The Air Force responded in 2007 with a letter stating that additional evaluation and potentially a removal action were planned for SWMU 127. The NMED responded in 2008 by indicating that they would evaluate the site again following the confirmation sampling. In February 2008, samples were collected and analyzed for polycyclic aromatic hydrocarbons (PAHs) and metals, but not VOCs. In the 22 June 2010 letter regarding NMED's review of the July 2008 Voluntary Corrective Action Letter Report, NMED requested that a final risk screening be performed for all historical detections from the 1993, 1994, and 2008 sampling events including metals and organics of concern, considering both industrial and residential pathways, and including a discussion of the potential for exposure via inhalation. The following sections describe the risk screening performed in response to NMED's request.

SWMU 127 consisted of a sand trap and leach field for the refueling truck wash rack at Facility 4095. The leach field was active from 1977 to 1990 and was replaced with a new leach field and oil water separator (OWS) in 1991. The 2008 CMS reported that the new leach field remains in place, but has been bypassed and is no longer used.

2.0 Human Health Risk Screening Evaluation

This human health risk screening evaluation examines organics in soil, inorganics in soil, and soil vapor. The risk evaluations are presented in separate subsections as the analytical data are organized in this manner. A combined human health risk evaluation, summing risks and hazards for organic and inorganic chemicals in all media, is presented in Section 2.6.

It should be noted that estimated risks and hazards are reported to two significant figures herein, to avoid an appearance of rounding errors (if only one significant figure was used) and to aid in the calculation of refined risks and/or hazards (e.g., ~~target organ-specific noncancer hazards, resultant risks when discounting anthropogenic PAHs,~~ resultant risks when substituting 95% UCL EPCs for maximum detected concentrations, etc.). In actuality, risk assessment is not an exact science, and estimated risks and hazards are typically only accurate to one significant figure.

2.1 Risk Screening Evaluation for Organics in Soil

To evaluate the potential risks from exposure to analytes at SWMU 127, the concentrations detected in soil during the 1993, 1994, and 2008 sampling events were compared to the June 2012 Soil Screening Levels (SSLs) for industrial and residential receptors as found on Table A-1 of the *Risk Assessment Guidance for Site Investigation and Remediation, Volume 1*~~.~~ (NMED, 2012). The combined 1993, 1994, and 2008 soil dataset is summarized on the attached **Table 1** and **Table ~~11~~12** presents the entire dataset on compact disc (CD). The maximum detected soil concentration for each analyte is shown at the top of the table, with maximum concentrations exceeding the residential SSL shown in yellow highlight. The only concentrations that exceeded the residential SSL included:

- Benzo(a)anthracene (1 sample, 0 feet below ground surface [ft bgs], 1993),
- Benzo(a)pyrene (1 sample, 0 ft bgs, 1993),
- Benzo(b)fluoranthene (3 samples, 0-0.5 ft bgs, 1993 and 1994),
- Dibenz(a,h)anthracene (3 samples, 0-0.5 ft bgs, 1994),
- Indeno(1,2,3-cd)pyrene (1 sample, 0 ft bgs, 1993), and
- Total petroleum hydrocarbons (TPH) (2 samples, 0 ft bgs and 48-50 ft bgs, 1993 and 1994).

~~Cumulative~~Total cancer risk and noncancer hazard calculations were performed for organic constituents (as shown in **Table 2**), using the maximum detected concentrations for all the soil data, including those detected constituents that both exceeded and did not exceed a risk-based screening value, per NMED ~~(2012)~~ Guidance. Estimated inorganic risks and hazards are presented in Section 2.4. It should be noted that the risk-based screening values used in **Table 2** were updated using NMED (2014) Guidance, as well as updated EPA Regional Screening Levels (RSLs) (EPA, 2015). Based on this ~~cumulative~~total risk evaluation for organics, the total estimated cancer risk for a future hypothetical residential land use scenario was ~~8.2E~~7.9E-4, while the estimated total noncancer hazard was 0.~~53~~50. The estimated total cancer risk for organics exceeded ~~NMED's~~USEPA's target risk range of 1E-4 to 1E-6 (National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR §300.430).

The primary contributors to cancer risk ~~threshold of 1E-5, primarily due to~~were the five PAHs listed previously. Benzo(a)pyrene and benzo(b)fluoranthene contributed the most to the total estimated cancer risk~~.~~ for organics. The estimated noncancer hazard was acceptable, as it did not exceed 1.0. The total estimated cancer risk for a future industrial land use scenario was ~~5.4E~~4.0E-5, while the estimated total noncancer hazard was 0.~~09~~08. The estimated total cancer risk for organics for an industrial scenario ~~also exceeded NMED's target cancer risk threshold of~~exceeds 1E-5~~, also~~ due to the five PAHs listed previously. The estimated noncancer hazard was acceptable, as it did not exceed 1.0.

Shallow soil samples collected in 2008 did not confirm the elevated PAH concentrations~~.~~, although it should be noted that not every 2008 sample exactly matched the location of the 1993/1994 samples. The goal of the 2008 sampling was to resample some of the historical hotspot locations, as well as to further characterize the area. The PAH compounds detected in 1993 and 1994 in surface soil samples were commonly found in areas likely receiving runoff from asphalt pavement (due to proximity) and did not correspond to locations where elevated TPH was detected. The lack of deeper PAH detections at elevated concentrations (or exceeding the SSLs) and the lack of confirmation during the 2008 surface soil sampling indicate that PAHs found in surface soil in 1993 and 1994 are unlikely to have resulted from a release of petroleum to the leach field and there is unlikely to be a subsurface source of PAHs that would present an unacceptable risk to future residential or industrial receptors. Based on NMED review comments on the initial version of this Letter Report, it was suggested that site-specific background soil samples be collected proximate to the site to support the assertion that PAHs are related to anthropogenic background (e.g., runoff from asphalt roadways~~).~~, where these roadways are considered an anthropogenic source). This ~~background~~ sampling was performed in August 2014 and results are discussed in Section 2.2 and in the ~~following subsections.~~Uncertainty Section (Section 2.8).

2.2 New Soil Samples

Four site-specific background surface soil samples (0 to 0.5 feet) were collected August 25, 2014 proximate to SWMU 127 (**Figure 1**) and analyzed for PAHs via Method 8270 SIM in an attempt to confirm that the previously detected PAHs in shallow soil were related to anthropogenic background~~,~~ (i.e., runoff from nearby asphalt surfaces, such as ~~discussed~~the roadway and parking lot), as mentioned previously in Section 2.1. In addition, one sample and a field duplicate were collected on August 26, 2014 from just beneath the concrete pad from a depth of 1.5 to 2.5 feet and analyzed for Gasoline Range Organics, Diesel Range Organics, and Residual Range Organics via Method 160.3 to confirm the historical sample results that reported very low TPH concentrations. TPH samples results from 127-SB23 results were nondetect and thus did confirm low concentrations

The anthropogenic background sample locations were selected proximate to the site, within slight depressions that run parallel to existing asphalt roadways, and far enough from the site as to preclude potential migration of site PAHs to these background areas. ~~Analytical results from this sampling event are presented on the CD as **Appendix C**. Using the PAH background sample results, upper tolerance limits (UTLs) were calculated following NMED (2012). These UTLs are summarized in **Table 3**, based on statistical output from ProUCL software, v. 5.0.00 (EPA, 2014) presented in **Appendix A-1**. As shown in **Table 4**, the maximum detected site concentration of 15 of the 17 PAH compounds at SWMU 127 (except 2-methylnaphthalene and naphthalene) are below site-specific background. This finding is based on a comparison of the site maximum detected concentration with either the calculated background UTL or the maximum background detected concentration.~~As stated in the RFI Work Plan (Cannon AFB, 1993), the wash rack sloped to a centrally located drain that contained

the sand trap; therefore, migration of site PAHs to the sample locations along the existing asphalt roadways is unlikely. Analytical results from this sampling event are presented on the CD as **Appendix C**.

NMED review comments dated June 3, 2015 questioned the appropriateness of these limited PAH samples for use in reaching a determination of anthropogenic background. The site is adjacent to an asphalt parking lot and an asphalt road, and it is hypothesized that anthropogenic PAHs from these two areas have migrated onto the site, resulting in the measured elevated concentrations of site PAHs. However, NMED is concerned that (1) there are not enough background and site samples to demonstrate a concentration gradient from these two off-site source areas; and (2) potential surface water overland flow migration pathways have not been robustly characterized. Current data do not allow conclusive attribution of elevated PAH concentrations to runoff from asphalt roadways.

After site-specific evaluation and refinement, and as described in Section 2.6, cumulative cancer risk is 8.4E-06 and noncancer HI is 0.39 for an industrial receptor (as shown in Table 7). Therefore, the AF proposes risk-based closure with land use restrictions under an industrial scenario as outlined in the following site-specific evaluation..

2.3 Refined Risk Screening Evaluation for Soil Organics

~~As 15 of the site PAH compounds (i.e., acenaphthene, acenaphthylene, anthracene, , benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo(g,h,i)perylene, benzo[k]fluoranthene, chrysene, dibenzo[ah]anthracene, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene, , phenanthrene, and pyrene) were found to be below site-specific background, the risk associated with these background PAHs was subtracted from the total estimated site risk. As shown at the end of **Table 2**, the total estimated site cancer risk for a future hypothetical residential land use scenario without background PAHs was 1.6E-5, while the total estimated site cancer risk for a future industrial land use scenario without background PAHs was 2.8E-6. As the estimated residential cancer risk still exceeded NMED's target risk threshold of 1E-5, further evaluation is warranted. It should be noted that background PAHs were not discounted in the initial risk and hazard calculations (Section 2.1 and 2.2) because NMED (2012) only allows inorganics to be discounted prior to the risk screening, and states "if there is site history to indicate a chemical was potentially used/present at a site, and the chemical was detected in at least one sample, this chemical must be included as a COPC and evaluated in the screening assessment."~~

The ~~three~~five COPCs in soil contributing the most to the total risks for the future hypothetical residential and future industrial land use ~~scenario risk of 1.6E-5 (without the 15 background PAHs),~~scenarios were ~~benzene, ethylbenzene, and naphthalene~~benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene (**Table 2**). Rather than using the maximum detected concentration for these ~~three~~five COPCs in the ~~cumulative~~total risk evaluation, a refined assessment using the 95% upper confidence limit (UCL) on the mean is recommended. Based on soil sample results for the 0 to 10 foot bgs depth interval (a depth interval potentially available for future ~~residential~~ exposure, assuming the site is redeveloped for residential or industrial land use and ~~home~~building construction brings subsurface soils to the surface), these ~~three~~five COPCs had frequencies of detection of ~~1~~33 out of ~~62, 2~~68, 35 out of ~~62~~68, 31 out of 68, 16 out of 68, and ~~1~~31 out of 68, respectively (**Appendix A-~~2~~1**). Using EPA's ProUCL statistical software (v5.0.00) (EPA, 2014), the estimated 95% ~~UCL for ethylbenzene was 6,271~~UCLs for these five PAHs were as follows:

- Benzo(a)anthracene: 774 µg/kg~~. However, the 95% UCLs were not calculated by ProUCL for benzene and naphthalene due to only one distinct value being detected (**Appendix A-2**). When only one detected~~

~~result is available, ProUCL does not calculate a 95% UCL and states "Warning: Only one distinct data value was detected. ProUCL (or any other software) should not be used on such a data set. It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV)." Therefore, as a conservative approach, the maximum detected concentrations of benzene and naphthalene were retained as EPCs in this refined assessment.~~

- Benzo(a)pyrene: 1,104 µg/kg
- Benzo(b)fluoranthene: 1,600 µg/kg
- Dibenzo(a,h)anthracene: 96.1 µg/kg
- Indeno(1,2,3-cd)pyrene: 541 µg/kg

For the data sets ~~with~~for these five PAHs that had non-detects with multiple detection limits ~~(as is the case for ethylbenzene for SWMU-127 soil data),~~, ProUCL uses the Kaplan-Meier (KM) estimation method to derive ~~a~~ recommended 95% ~~UCL~~UCLs (EPA, 2014~~). For ethylbenzene the 95% UCL was based on the 95% KM Chebyshev statistic~~) (**Appendix A-~~2~~1**).

~~As the estimated residential cancer risk for ethylbenzene using the maximum detected concentration of 54,000 µg/kg was 7.9E-6 (**Table 2**), and the estimated cancer risk associated with the 95% UCL of 6,271 µg/kg is 9.2E-7 (6,271 µg/kg/54,000 µg/kg × 7.9E-6), the total estimated residential cancer risk (without the 15 background PAHs) may be reduced by 7.0E-6 (7.9E-6 – 9.2E-7). Therefore, the estimated residential cancer risk (without background PAHs, but with the 95% UCL for ethylbenzene) is 9.0E-6 (1.6E-5 – 7.0E-6). As 9.0E-6 is less than NMED's target risk threshold of 1E-5, future hypothetical residential risk is acceptable.~~

~~It should be noted that this estimated residential cancer risk of 9.0E-6 (discussed above) is conservative because exposure point concentrations for benzene and naphthalene are expected to be considerably lower than the maximum detected concentrations of 3,800 mg/kg and 21,000 mg/kg because (1) the maximum concentrations detected in surface soil recorded in 1994 are likely to be lower due to weathering and volatilization; and (2) the mean exposure point concentrations, using the entire soil data set, are 106 mg/kg and 793 mg/kg, respectively, that are approximately 36-fold and 26-fold lower than the maximums.~~

Revised total risk and hazard estimates for organics, replacing maximum detected concentrations of these five PAHs with estimated 95% UCLs, are presented in **Table 3**. Because the estimated total cancer risk calculated for exposure to soil for a hypothetical resident exceeds the upper bound of EPA's risk management range (1E-4), the Air Force proposes to restrict future residential land use at this site. Based on this refined evaluation shown in **Table 3**, the total estimated cancer risk for a future hypothetical residential land use scenario was 1.13E-4, while the estimated total noncancer hazard was 0.50. The estimated total cancer risk still exceeded the upper bound of the EPA's risk management range (1E-4). The estimated noncancer hazard was acceptable, as it did not exceed 1.0. The total estimated cancer risk for a future industrial land use scenario was 7.6E-6, while the estimated total noncancer hazard was 0.08. The estimated total cancer risk for an industrial scenario does not exceed 1E-5. The estimated noncancer hazard was acceptable, as it did not exceed 1.0.

It is possible that future ~~residents~~exposure may only ~~be exposed to~~occur for COPCs in surface soil, not total soil, assuming future ~~home~~building construction does not bring subsurface soils deeper than approximately 2 feet bgs to the surface. To address this uncertainty, ~~the~~ 95% ~~UCL~~UCLs for ~~ethylbenzene is~~these five PAHs are also estimated using just surface soil sample results from 0-2 feet bgs, as discussed in the Risk Screening Evaluation Uncertainty Analysis (Section 2.8).

Therefore, site closure using a land use restriction to prohibit future residential land use, thereby ensuring industrial land use, is recommended. Additional considerations related to this recommendation (in addition to the soil depth interval uncertainty mentioned above) are discussed in the following sections.

2.4 Risk Screening Evaluation for Inorganics in Soil

Although there were no metal analytes that exceeded the residential SSLs, ~~cumulative~~total cancer risk and noncancer hazard calculations were performed for the metal constituents (as shown in **Table ~~5~~4**), using the maximum detected concentrations for all the soil data, ~~including those detected constituents that both exceeded and did not exceed a risk-based screening value,~~ per NMED (~~2012~~2014) Guidance. However, metals found to be related to background were excluded from the ~~cumulative~~total risk and hazard calculations, as allowed by NMED (~~2012~~2014). The screen values for background metals were the UTLs from the Cannon Air Force Base Background Study (Cannon AFB, 1997). Of the 20 detected metals in SWMU 127 soil samples, ten were determined to be related to background (**Table ~~5~~4**). Excluding these background-related metals, the total estimated cancer risk for a future hypothetical residential land use scenario is zero (as the only carcinogen [arsenic] was determined to be related to background), and the estimated total noncancer hazard is 0.~~83~~68. The future industrial hazards are even lower (0.~~06~~04). These metal risks and hazards are acceptable.

For informational purposes, the total estimated cancer risk for a future hypothetical residential land use scenario including background metals was 7.~~7E~~1E-6, while the estimated total noncancer hazard was 1.~~6~~5. The total estimated cancer risk for a future industrial land use scenario including background metals was 1.~~7E~~4E-6, while the estimated total noncancer hazard was 0.~~11~~09 (**Table ~~5~~4**).

2.5 Risk Screening Evaluation for Organics in Soil Vapor and New Soil Vapor Samples

The NMED requested an evaluation of the vapor intrusion (VI) pathway for VOCs due to elevated benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations detected in the 1993 and 1994 sampling. The VI pathway was initially evaluated using soil data and the Johnson & Ettinger Soil Model (SL-SCREEN Version 3.1, EPA, 2004). However, subsequent review comments (NMED, 2014) requested the collection of soil vapor data for evaluation of the VI pathway. Therefore, 22 soil vapor samples were collected at the site in August 2014, 11 samples from a depth of 5 feet bgs and 11 samples from a depth of 10 feet bgs. A field duplicate was collected for quality control purposes. ~~Results of the detected VOCs are presented in **Table 6**~~

The soil vapor samples were collected as active soil vapor samples using temporary vapor monitoring points installed at 5 feet and 10 feet below ground surface using direct push technology. Each temporary monitoring point was purged using a peristaltic pump prior to sample collection. The samples were collected in 1 liter Summa canisters with a controlled flow pump system and submitted to ALS Laboratories for analysis. Results of the detected VOCs are presented in **Table 5**, ranked from highest to lowest for each parameter. Twenty detected VOCs were entered into the Johnson & Ettinger Soil Vapor Model (SV-ADVANCED Version 2.0, 2003) (**Appendix B**), modified to accept multiple chemicals ~~(**Appendix B-1**).~~, updated to use current inhalation toxicity data (NMED, 2014, followed by EPA, 2015) and also revised to update chemical-specific transport parameters, including diffusivity in air and water, and Henry's law, based on the California Department of Toxic Substances Control (DTSC) Johnson & Ettinger Model for Soil Gas (California DTSC, 2014). Future hypothetical residential and future industrial risks and hazards were estimated, using the maximum detected concentrations in the 5 foot samples, as well as in the 10 foot samples. Soil type was set equal to sand~~. Inhalation toxicity data~~

~~were obtained from EPA's May 2013 Regional Screening Level Table (to be consistent with the date of screening levels used in **Table 1**).~~, based on known characteristics of the Site. When one of the 20 detected VOCs was not detected in one of the depth intervals, the reporting limit was used as a surrogate concentration (i.e., for bromoform and chloroethane in the 10 foot samples and for cis-1,2-dichlorothene in the 5 foot samples). Several parameter results were not used in the VI assessment, as discussed in the following bullets:

- TPH fraction results, including c5-c8 aliphatics, c9-c10 aromatics, c9-c12 aliphatics, and TPH gasoline, were not used, as VI transport properties such as Henry's Law are not readily available for these types of mixture results. In addition, as a full suite of VOC soil vapor results are available, use of conservative surrogates for TPH mixtures are not needed.

- ~~Results for 2-hexanone were not used, as this parameter is not included in the Johnson & Ettinger Soil Vapor Model. As the maximum detected concentration of this parameter was 4.8 µg/m^3 in a 5 foot sample, and the residential indoor air screening concentration is 31 µg/m^3, the discounting of the parameters is deemed minor.~~

- Results for o-xylene were added to results for m,p-xylene, as the latter is not included in the Johnson & Ettinger Soil Vapor Model. As the toxicity reference concentration for both of these parameters is the same (0.2 mg/m^3), this approach is deemed appropriate.

Based on the results of the VI assessments (**Appendix B**~~-1~~), the total estimated future hypothetical residential cancer risk was ~~4.2E-7~~1.1E-6 based on the 5 foot sample results, while the total estimated noncancer hazard index was 0.~~11~~36. Using the 10 foot sample results, the total estimated future hypothetical residential cancer risk was ~~7.8E-7~~2.3E-6, while the total estimated noncancer hazard index was 0.~~21~~76. The residential risk and hazard driver for both the 5 and 10 foot sampling intervals was trichloroethene. ~~A~~The total estimated future industrial ~~risk evaluation for VI was not performed, as the residential risks and hazards were acceptable (i.e., total~~ cancer risk was ~~less than NMED's target~~3.8E-7 based on the 5 foot sample results, while the total estimated noncancer hazard index was 0.13. Using the 10 foot sample results, the total estimated future industrial cancer risk was 7.8E-7, while the total estimated noncancer hazard index was 0.27. To conservatively consider the maximum estimated risk ~~threshold of 1E-5 and the total hazard index was below 1.0).~~and hazard, by VOC, from both sample depth intervals, **Table 6** presents a combined summary for future inhalation exposure for industrial land use, where the total estimated future industrial cancer risk is 7.9E-7, while the total estimated noncancer hazard index is 0.27.

2.6 Cumulative Risk Screening Evaluation

To consider potential combined risks and hazards for all media, **Table 7** presents cumulative risks and hazards for a future ~~hypothetical residential~~industrial land use scenario. The total estimated cumulative cancer risk is ~~9.8E~~8.4E-6, which is below ~~NMED's target cancer risk threshold of~~ 1E-5. The total estimated cumulative noncancer hazard is ~~1.6~~0.39, which ~~slightly exceeds~~also is below NMED's target noncancer hazard threshold of 1.0. ~~Therefore, a further segregation of the estimated total hazard index by target organ was performed. As shown in the table, as only two COPCs affect the kidney (toluene and barium), the combined HI is 0.12. In addition, as only two COPCs affect the nervous system (aluminum and manganese), the combined HI is 0.37. All other hazard drivers in soil and soil vapor affect different target organs and thus adverse effects are not additive. Therefore, after discounting toluene and barium, and aluminum and manganese (that affect the kidney and~~

~~nervous system, respectively), none of the remaining COPCs had an HQ that exceeded 1.0.~~ Based on this cumulative risk evaluation ~~of total hazards segregated by target organ~~, estimated future ~~residential~~ industrial risks and hazards are acceptable.

2.7 Risk Screening Evaluation for Potential Leaching for COPCs

An evaluation of potential leaching of COPCs from soil to groundwater was performed. As recommended in NMED (~~2012~~2014), leaching soil screening levels (SSLs) based on a dilution attenuation factor (DAF) of 20 were used. SSLs based on a DAF of 20 are default SSLs that should be applicable at most sites, to account for natural processes that reduce contaminant concentrations in the subsurface. As stated in NMED (~~2012~~2014), SSLs based on a DAF of 1 should only be considered at sites where little or no dilution or attenuation of soil leachate concentrations is expected (e.g., shallow water tables, karst topography), which is not the case for SWMU 127.

For the organic chemicals in soil, the maximum detected concentrations of nine COPCs exceeded SSLs protective of groundwater resources, including benzene, ethylbenzene, toluene, xylenes, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, 2-methylnaphthalene, and naphthalene (**Table 8**). The magnitude of exceedances ranged from a low of ~~3.~~2.8-fold for ~~toluene~~benzo(b)fluoranthene to a high of ~~295~~255-fold for naphthalene. For metals, the maximum detected concentrations of ~~two~~four COPCs exceeded SSLs protective of groundwater resources, including arsenic ~~and~~, cobalt, iron, and thallium (**Table 9**). The magnitude of exceedances ranged from a low of 1.~~9~~4-fold for ~~cobalt~~thallium to a high of ~~12~~10-fold for arsenic. However, as arsenic ~~was~~, iron, and thallium were determined to be related to background (the maximum detected ~~concentration of 3.0 mg/kg was~~concentrations were below the background UTLs ~~that ranged from 3.6 mg/kg to 4.3 mg/kg~~ (**Table 9**), ~~this metal is~~these metals are not a concern for leaching. For cobalt, the maximum detected concentration of 8 mg/kg exceeded the SSL of 5.4~~.2~~ mg/kg, as well as exceeded the background UTL range of 4.7 mg/kg to 6.6 mg/kg.

The depth to groundwater at the site is approximately 300 feet bgs, the nearest groundwater supply well is screened at 360-410 feet bgs, and evapotranspiration rates are very high in the area. The maximum detected concentrations of the nine organic COPCs exceeding SSLs protective of groundwater resources were all detected in surface soil (either 0 or 0-0.5 ft. bgs), which indicates these organics are unlikely to contribute to groundwater contamination. In addition, it should be noted that the depth of the single cobalt sample that exceeded the background range was sample CAN127-2709-0000 collected from a depth of 0 to 0.5 feet bgs (**Table 1**). As cobalt only exceeded the SSL in surface soil, this is further evidence that this metal is unlikely to contribute to groundwater contamination.

Therefore, adverse impacts to groundwater from leaching of COPCs in soil are considered to be highly unlikely.

2.8 Risk Screening Evaluation Uncertainty Analysis

This subsection discusses some uncertainties associated with the risk screening evaluation, including potential anthropogenic PAHs (Section 2.8.1), the use of total soil samples, and not surface soil samples, for a future ~~residential~~industrial exposure scenario (Section 2.8.~~1)~~2), and the ~~size~~representativeness of ~~the site~~**historic** data compared with ~~a potential future residential lot~~more recent data (Section 2.8.~~2~~3).

2.8.1 Site PAHs Potentially Related to Anthropogenic Background

While the anthropogenic background PAH samples discussed in Section 2.2 were not formally used in the Risk Evaluation up to this point, these results are discussed herein, as they provide additional information and support for the recommended risk-based closure.

As shown in **Table 10**, the maximum detected site concentration of 15 of the 17 PAH compounds at SWMU 127 (except for 2-methylnaphthalene and naphthalene) are below the maximum detected concentration of the four samples collected along the asphalt roadway and/or parking lot (that potentially represent anthropogenic background). For these 15 PAHs, the relative difference was generally quite large, ranging from 2.7-fold to 44-fold, and averaging more than an order of magnitude (10-fold) difference, based on a comparison of the maximum detected site concentration with the maximum detected concentration proximate to the asphalt surfaces. Using the mean background detected concentration; the average difference was 4.5-fold. While there is uncertainty that these four PAH concentrations collected proximate to asphalt surfaces truly represent anthropogenic background (see Section 2.2), additional discussion is provided herein for informational purposes and to support the recommended risk-based closure (i.e., industrial, not residential).

As 15 of the site PAH compounds (i.e., acenaphthene, acenaphthylene, anthracene, ~~**2.8.1**~~benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo(g,h,i)perylene, benzo[k]fluoranthene, chrysene, dibenzo[ah]anthracene, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene, phenanthrene, and pyrene) were found to have maximum detected site concentrations below concentrations from samples collected along the adjacent asphalt roadway and parking lot (assuming these data do represent anthropogenic background), the risk associated with these PAHs could be eliminated from the total estimated site risk. As shown in the last row of **Table 11**, the total estimated site cancer risk for a future hypothetical residential land use scenario without these PAHs would be 1.4E-5, while the total estimated site cancer risk for a future industrial land use scenario without these PAHs would be 2.8E-6. When combined with the estimated future residential vapor intrusion risk of 2.3E-6 (Section 2.5), the cumulative cancer risk exceeds 1E-5 (1.4E-5 + 2.3E-6 = 1.6E-5, that rounds to 2E-5).

As this industrial soil risk estimate of 2.8E-6 (without these PAHs) is approximately 2.7-fold lower than the risk estimate with all PAHs (7.6E-6) (**Table 3**) .

2.8.2 Use of Total Soil Samples Compared with Surface Soil Samples for ~~Residential~~Industrial Scenario

As discussed in Section 2.3, it is possible that future ~~residents~~industrial receptors may only be exposed to COPCs in surface soil, not total soil, assuming future ~~home~~building construction does not bring subsurface soils deeper than approximately 2 feet bgs to the surface. To address this uncertainty, ~~the~~ 95% ~~UCL~~UCLs for ~~ethylbenzene was~~benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were estimated using just the ~~28~~44 surface soil sample results collected from approximately 0-2 feet bgs. Note: other COPCs are not addressed in this subsection because maximum detected concentrations from 0-10 feet bgs were used~~.~~ in the screening risk evaluation. The 95% UCL for ~~ethylbenzene~~these five PAHs in surface soil ~~was 18,796 µg/kg, based on a 97.5 KM Chebyshev UCL statistic, as recommended by ProUCL~~ (**Appendix A-**~~**3**~~**).** ~~As this UCL is greater that the UCL of 6,271 µg/kg estimated for~~**2)**, as well as the 95% UCLs from total soil (~~0-10 ft. bgs;~~ Section 2.3) ~~by a factor of 3-fold, the estimated ethylbenzene risk would increase if only surface soil data were used.~~ are as follows:

~~An estimation of future residential risk using the surface soil EPC for ethylbenzene is presented in this paragraph (following the approach used previously in Section 2.3). As the estimated residential cancer risk for ethylbenzene using the maximum detected concentration of 54,000 µg/kg was 7.9E-6 (**Table 2**), and the estimated cancer risk associated with a surface soil 95% UCL of 18,796 µg/kg was 2.7E-6 (18,796 µg/kg/54,000 µg/kg × 7.9E-6), the total estimated residential cancer risk (without the 15 background PAHs) may be reduced by 5.2E-6 (7.9E-6 – 2.7E-6). Therefore, the estimated residential cancer risk (without background PAHs, but with the 95% UCL in surface soil for ethylbenzene) is 1.1E-5 (1.6E-5 – 5.2E-6). Although 1.1E-5 is slightly greater than NMED's target risk threshold of 1E-5, when rounded to one significant figure (as recommended for cancer risks per EPA 1989 [Page 8-12 and Exhibit 8-2]), it is considered equal to the NMED risk threshold. However, to be conservative, additional future hypothetical residential risk evaluation, including ethylbenzene in surface soil, is provided in the following three paragraphs.~~

~~The surface soil ethylbenzene EPC of 18,796 µg/kg is based on the 97.5 KM Chebyshev UCL statistic (**Appendix A-3**). Occasionally, ProUCL recommends the 97.5 or 99 percent upper confidence limit on the arithmetic mean estimated by the Chebyshev method. In these cases, the UCL estimated by the Chebyshev method (95th percent) may be selected as the EPC because this is more consistent with the intent of the reasonable maximum exposure paradigm as defined by EPA (1989; 1991). The 95 KM Chebyshev UCL statistics for ethylbenzene in surface soil is 13,745 µg/kg (**Appendix A-3**). As 13,745 µg/kg is lower than 18,796 µg/kg, the estimated future residential risk may be reduced, as estimated in the following paragraph.~~

~~As the estimated residential cancer risk for ethylbenzene using the maximum detected concentration of 54,000 µg/kg was 7.9E-6 (**Table 2**), and the estimated cancer risk associated with a surface soil 95% UCL (using the 95 KM Chebyshev statistic) of 13,745 µg/kg was 2.0E-6 (13,745 µg/kg/54,000 µg/kg × 7.9E-6), the total estimated residential cancer risk (without the 15 background PAHs) may be reduced by 5.9E-6 (7.9E-6 – 2.0E-6). Therefore, the estimated residential cancer risk (without background PAHs, but with the 95% KM Chebyshev UCL in surface soil for ethylbenzene) is 1.0E-5 (1.6E-5 – 5.9E-6). As 1.0E-5 does not exceed NMED's target risk threshold of 1E-5, future hypothetical residential risk including ethylbenzene in surface soil (not total sol) is acceptable.~~

~~When this revised estimate of future residential risk for organics in soil (1.0E-5) is considered for the combined risk evaluation (previously presented in **Table 7**), the cumulative cancer risk increases from 9.8E-6 to 1.1E-5. As 1.1E-5 slightly exceeds NMED's target risk threshold of 1E-5, further evaluation is performed, as a conservative approach. As the soil vapor VOC contributing the most to the total estimated VI risk was trichloroethene, and the risk was conservatively based on the maximum detected concentration of 920 µg/m^3 from a 10 foot bgs sample (127-SV05), a 95% UCL EPC was estimated for this VOC. Using the 10 soil vapor samples collected from the western portion of the site (**Figure 1**), that are within a 100 m^2 hypothetical future residence footprint, the estimated trichloroethene 95% UCL was 501 µg/m^3 (using the 10 foot bgs samples, that had higher concentrations than the 5 foot samples; **Appendix A-4**). Substituting this trichloroethene EPC for the maximum detected concentration used in the VI Model (**Appendix B-2**), the revised total estimated cancer risk is 4.4E-7. Therefore, the cumulative cancer risk for the site is 1.0E-5, using the ethylbenzene EPC for surface soil (discussed previously; 95 KM Chebyshev UCL) and the trichloroethene EPC for soil, as well as the maximum detected concentrations of all other COPCs (excluding background PAHs and metals). As 1.0E-5 does not exceed NMED's target risk threshold of 1E-5, future hypothetical residential risk for all COPCs in all media is acceptable (**Table 10**).~~

~~2.8.2 Comparison of the Size of the Site with a Future Residential Lot~~

~~The approximate area of SWMU 127 represented by soil samples is slightly less than ¼ acre (**Figure 1**). As a future residential lot could be ¼ acre in size, calculation of the ethylbenzene EPC using soil samples collected from across the site is thus not expected to underestimate the estimated risk. However, if a future residential lot is smaller than ¼ in size and is centered on the ethylbenzene soil hotspot (i.e., around soil sample CAN127-2710-0000), risks associated with this VOC's EPC would be expected to increase. However, due to the historical collection date of the ethylbenzene hotspot in soil (December 1994), this uncertainty is not considered significant because substantial degradation of this VOC over the past 20 would be expected.~~

~~As 10 of the 11 soil vapor sample locations in 2014 from the western portion of the site were purposefully selected to be from an area less than approximately 100 m^2 in size (the default size of a residential home footprint recommended for use in the VI Model), modeled VI risks using trichloroethene's EPC are considered appropriate. The one soil vapor sample location in the eastern portion of the site (127-SV01) had trichloroethene concentrations of 120 µg/m^3 and 180 µg/m^3 from 5 and 10 feet bgs, respectively. As both of these trichloroethene concentrations are lower than the western portion of the site EPCs of 148 µg/m^3 and 501 µg/m^3 (**Appendix A-4**), use of the 127-SV01 sample results as EPCs would not alter risk evaluation conclusions.~~

~~Note: other soil vapor VOC compounds (besides trichloroethene) are not addressed in this subsection because maximum detected concentrations were used in the risk evaluation.~~

~~2.8.3 Use of Soil Vapor Sample Results from Different Locations for Cumulative VI Pathway~~

~~For the vapor intrusion risk evaluation, maximum detected VOC concentrations in soil vapor, regardless of horizontal sample location, were initially used in the cumulative risk and hazard calculations (note: for a refined assessment, trichloroethene results were replaced with a 95% UCL EPC, as discussed previously). This approach is considered conservative because it assumes simultaneous indoor air exposure to maximum concentrations that occur at different locations. This conservative approach was selected because the majority of the VOC contamination occurred within the western portion of the site where 10 separate 5 ft. and 10 ft. depth samples were collected (as compared with the two sample depth samples collected from the eastern portion of the site (sample SV01; **Figure 1**). As these 20 depth-specific samples from the western portion of the site were purposefully selected to be from an area less than approximately 100 m^2 in size (the default size of a residential home footprint recommended for use in the VI Model), modeled VI risks and hazards using maximum concentrations are considered potentially realistic because soil vapor from the western site area might migrate into a single future home.~~

~~While six (of the twenty) maximum detected concentrations used in the VI assessment were from the eastern sample location, cumulative risks (and hazards), based on all twenty of the detected VOCs, are not considered to be overly conservative due to the very low estimated risks and hazards for these sample results, as shown below (from **Appendix B-1**):~~

PAH	**95% UCL in Surface Soil ~~Vapor VOC~~(µg/kg)**	**~~MDC~~95% UCL in Total Soil (µg/~~m~~^{3}kg)**	**~~Sample Location~~Surface Soil Findings**

Carbon tetrachlorideBenzo(a)anthracene	0.762,242		SV01-5 ft774	8.6E-102.9-fold increase
Acetone	420	SV01-5 ft	NA	0.0000075
ChloromethaneBenzo(a)pyrene	1.6,677		1,104	SV01-5 ft1.5-fold increase
2-HexanoneBenzo(b)fluoranthene	4.83,212		SV01-5 ft1,600	No toxicity data2.0-fold increase
Dibenzo(a,h)anthracene	4-Methyl-2-pentanone98.4		696.1	0.000000501.0-fold increase
1.0Indeno(1,2,3-cd)pyrene	SV01-5 ft691		NA541	0.000000331.3-fold increase

The differences in these 95% UCLs are used to scale up the estimated future industrial receptor risk estimates, from **Table 3**, as follows:

PAH	**Total Soil Industrial Risk**	**Increase in Surface Soil 95% UCL, Compared with Total Soil**	**Estimated Surface Soil Industrial Risk**
Benzo(a)anthracene	2.4E-7	2.9-fold increase	7.0E-7
Benzo(a)pyrene	3.4E-6	1.5-fold increase	5.1E-6
Benzo(b)fluoranthene	5.0E-7	2.0-fold increase	1.0E-6
Dibenzo(a,h)anthracene	3.0E-7	1.0-fold increase	3.0E-7
Indeno(1,2,3-cd)pyrene	1.7E-7	1.3-fold increase	2.2E-7
Total Risks:	**4.6E-6**	**'---**	**7.3E-6**

As the total industrial cancer risk for total soil is 7.6E-6 (**Table 3**), an estimate of total industrial cancer risk for surface soil exposure would be 7.6E-6 – 4.6E-6 + 7.3E-6, or 1.0E-5. When estimated vapor intrusion risks (7.9E-7; **Table 7**) are added (1.0E-5 + 7.9E-7 = 1.1E-5, the cumulative risk is still equal to 1E-5 after rounding.

2.8.3 Representativeness of Historic Data Compared with More Recent Data

There is uncertainty associated with the representativeness of some of the most historic (1993/1994) Site soil data, compared with some collocated sample results collected in 2008. For example, the maximum detected concentration of benzo(a)pyrene was 8,000 µg/kg in Sample 12705 collected at 0 feet bgs in September 1993 compared with a concentration of 67 µg/kg in Sample SB16 collected at 0-3 feet bgs in February 2008, that was approximately 5 feet away (**Figure 2**). Although these two samples were collected from different sample depths, the horizontal collection locations were quite close together, and the measured concentration in 2008 was lower by approximately two orders of magnitude than the concentration measured in 1993. PAHs such as benzo(a)pyrene may decline in concentration over time as a result of degradation due to weathering, especially in surface soils. Therefore, use of the 1993 sample result may overestimate current Site risks. If the benzo(a)pyrene result from Sample 12705 was excluded from the Risk Evaluation (and the result from Sample SB16 was retained as a more representative collocated result), the estimated 95% UCL on the mean for this PAH would drop from 1,104 µg/kg to 220 µg/kg in total soil (0-10 feet bgs) and would drop from 1,677 µg/kg to 395 µg/kg in surface soil. These alternative 95% UCLs still exceed the residential SSL for this PAH (153 µg/kg); however, this uncertainty evaluation suggests that the Site area with the highest benzo(a)pyrene concentration is more limited in extent since the maximum detected concentration was not confirmed in 2008.

3.0 Ecological Risk Evaluation

Using the Ecological Site Exclusion Criteria Decision Tree (Attachment B to Volume 2 of Risk Assessment Guidance for Investigations and Remediation; NMED, 2012), no sensitive areas exist at or adjacent to SWMU 127, the site does not contain other land areas which could be considered viable ecological habitat, and the site does not contain any perennial or ephemeral aquatic features. As no viable ecological habitat exists at the site and with the site's relative close proximity to the active flight line and other industrial facilities, no ecological receptors are expected to be present, and therefore, ecological risks are not a concern. Therefore, a detailed ecological assessment is not warranted.

4.0 Conclusions

For NMED's review, we have attached backup files on a compact disk with the ProUCL input and output files (**Appendix A**), as well as the Johnson & Ettinger Model input and output files (**Appendix B**). Based on the results of this risk screening evaluation, cumulative cancer risk and noncancer hazards for future hypothetical residential receptors is unacceptable, as estimated cancer risks exceed 1E-4 and the hazard index exceeds 1. Based on the results of this risk screening, the level of risk and hazard for current and future potential industrial receptors is acceptable, as the estimated cumulative risk is less than or equal to 1E-5 and the hazard is less than 1. Therefore, we request approval to proceed with a corrective action complete (with controls) proposal for SWMU 127.

5.0 References

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New Mexico Environmental Department (NMED), 2012, Risk Assessment Guidance for Site Investigations and Remediation, Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program, February.

~~5.0 Conclusions~~

~~For your review, we have attached backup files on a compact disk with the ProUCL input and output files (**Appendix A**), as well as the Johnson & Ettinger Model input and output files (**Appendix B**). Based on the results of this risk screening, the level of risk for all current and future potential residential and industrial receptors is acceptable, and we request approval to proceed with a corrective action complete proposal for SWMU 127.~~

Sincerely,

William A. Foss
CB&I Technical Lead – Cannon AFB, Midwest PBR

Cc: Dave Cobrain, NMED HWB
Brian Renaghan, AFCEC
Sheen Kottkamp, 27 SOCES/CEIER
Praveen Srivastav, CB&I Federal Services LLC
Project File (w/ attachments)

Attachments: Figure 1 – SWMU 127 Sampling Locations
Figure 2 – SWMU 127 Sample Locations with Exceedances

Table 1 – Summary of 1993, 1994, and 2008 Soil Analytical Results for SWMU 127
Table 2 – ~~Cumulative~~Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Table 3 – ~~Background Upper Tolerance Limit Summary, PAHs~~Refined Total Risk and Hazard Calculations for Organics in ~~Surface~~ Soil~~,~~ for SWMU 127
Table 4 – ~~Comparison of Maximum Detected Concentrations of PAH Risk Drivers in Soil with Site-Specific Background Concentrations, SWMU 127~~
~~Table 5 – Cumulative~~Total Risk and Hazard Calculations for Metals in Soil, SWMU 127
Table ~~6~~5 – Detected Soil Vapor Results, SWMU 127
Table 6 – Summary of Estimated Industrial Indoor Air Risks and Hazards Using Maximum Detected Concentrations from Soil Vapor Samples Collected from Two Depths
Table 7 - Cumulative Risks and Hazards, ~~Future Residential~~Industrial Land Use Scenario, All Media, SWMU 127
Table 8 - Soil Leaching Evaluation – Organics at SWMU 127
Table 9 - Soil Leaching Evaluation – Metals at SWMU 127
Table 10 ~~– Cumulative Risks~~ – Comparison of Maximum Detected Concentrations of PAH in Soil with Site-Specific Background Concentrations, SWMU 127
Table 11 – Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis, ~~Future Residential Land Use Scenario, All Media,~~ SWMU 127
Table ~~11~~12 – Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127 (on CD)
Appendix A - Pro-UCL Input and Output Files (on CD)
Appendix B - Johnson & Ettinger Vapor Intrusion Model Input and Output Files (on CD)
Appendix C – 2014 Soil and Soil Vapor Sample Analytical Results (on CD)

CB&I Federal Services LLC
One Westchase Center
10777 Westheimer, Suite 170
Houston, Texas 77042
Tel: 713 243-7095
www.CBI.com

October 22, 2015

Mr. John Kieling, Chief
Hazardous Waste Bureau (HWB)
New Mexico Environment Department (NMED)
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Revision 2 Final Risk Screening Evaluation for Solid Waste Management Unit (SWMU) 127, Petroleum, Oil, and Lubricants (POL) Wash Pad at Facility 4095, December 2013 Cannon Air Force Base (AFB), New Mexico EPA ID #NM7572124454

Dear Mr. Kieling:

The purpose of the second revision of this revised letter is to present the results of a final risk screening for Solid Waste Management Unit (SWMU) 127, the Petroleum, Oil, and Lubricants (POL) Wash Pad at Cannon Air Force Base (AFB) and to address New Mexico Environment Department (NMED) review comments dated August 7, 2014, and follow-on comments dated June 3, 2015. The screening presented in this letter includes both industrial and residential exposure scenarios, as well as exposure via inhalation of vapors, as requested in the NMED letter to Ronald Lancaster (Cannon AFB 27th Special Operations Civil Engineer Squadron [27SOCES/CEI]), dated 22 June 2010.

1.0 Background

In a 2007 letter regarding NMED's review of the Corrective Measures Study (CMS), NMED requested an evaluation of the vapor intrusion pathway for volatile organic compounds (VOCs) at SWMU 127. The Air Force responded in 2007 with a letter stating that additional evaluation and potentially a removal action were planned for SWMU 127. The NMED responded in 2008 by indicating that they would evaluate the site again following the confirmation sampling. In February 2008, samples were collected and analyzed for polycyclic aromatic hydrocarbons (PAHs) and metals, but not VOCs. In the 22 June 2010 letter regarding NMED's review of the July 2008 Voluntary Corrective Action Letter Report, NMED requested that a final risk screening be performed for all historical detections from the 1993, 1994, and 2008 sampling events including metals and organics of concern, considering both industrial and residential pathways, and including a discussion of the potential for exposure via inhalation. The following sections describe the risk screening performed in response to NMED's request.

SWMU 127 consisted of a sand trap and leach field for the refueling truck wash rack at Facility 4095. The leach field was active from 1977 to 1990 and was replaced with a new leach field and oil water separator (OWS) in 1991. The 2008 CMS reported that the new leach field remains in place, but has been bypassed and is no longer used.

2.0 Human Health Risk Screening Evaluation

This human health risk screening evaluation examines organics in soil, inorganics in soil, and soil vapor. The risk evaluations are presented in separate subsections as the analytical data are organized in this manner. A combined human health risk evaluation, summing risks and hazards for organic and inorganic chemicals in all media, is presented in Section 2.6.

It should be noted that estimated risks and hazards are reported to two significant figures herein, to avoid an appearance of rounding errors (if only one significant figure was used) and to aid in the calculation of refined risks and/or hazards (e.g., resultant risks when substituting 95% UCL EPCs for maximum detected concentrations, etc.). In actuality, risk assessment is not an exact science, and estimated risks and hazards are typically only accurate to one significant figure.

2.1 Risk Screening Evaluation for Organics in Soil

To evaluate the potential risks from exposure to analytes at SWMU 127, the concentrations detected in soil during the 1993, 1994, and 2008 sampling events were compared to the June 2012 Soil Screening Levels (SSLs) for industrial and residential receptors as found on Table A-1 of the *Risk Assessment Guidance for Site Investigation and Remediation, Volume 1* (NMED, 2012). The combined 1993, 1994, and 2008 soil dataset is summarized on the attached **Table 1** and **Table 12** presents the entire dataset on compact disc (CD). The maximum detected soil concentration for each analyte is shown at the top of the table, with maximum concentrations exceeding the residential SSL shown in yellow highlight. The only concentrations that exceeded the residential SSL included:

- Benzo(a)anthracene (1 sample, 0 feet below ground surface [ft bgs], 1993),
- Benzo(a)pyrene (1 sample, 0 ft bgs, 1993),
- Benzo(b)fluoranthene (3 samples, 0-0.5 ft bgs, 1993 and 1994),
- Dibenz(a,h)anthracene (3 samples, 0-0.5 ft bgs, 1994),
- Indeno(1,2,3-cd)pyrene (1 sample, 0 ft bgs, 1993), and
- Total petroleum hydrocarbons (TPH) (2 samples, 0 ft bgs and 48-50 ft bgs, 1993 and 1994).

Total cancer risk and noncancer hazard calculations were performed for organic constituents (as shown in **Table 2**), using the maximum detected concentrations for all the soil data, including those detected constituents that both exceeded and did not exceed a risk-based screening value, per NMED Guidance. Estimated inorganic risks and hazards are presented in Section 2.4. It should be noted that the risk-based screening values used in **Table 2** were updated using NMED (2014) Guidance, as well as updated EPA Regional Screening Levels (RSLs) (EPA, 2015). Based on this total risk evaluation for organics, the total estimated cancer risk for a future hypothetical residential land use scenario was 7.9E-4, while the estimated total noncancer hazard was 0.50. The estimated total cancer risk for organics exceeded USEPA's target risk range of 1E-4 to 1E-6 (National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR §300.430).

The primary contributors to cancer risk were the five PAHs listed previously. Benzo(a)pyrene and benzo(b)fluoranthene contributed the most to the total estimated cancer risk for organics. The estimated noncancer hazard was acceptable, as it did not exceed 1.0. The total estimated cancer risk for a future industrial

land use scenario was 4.0E-5, while the estimated total noncancer hazard was 0.08. The estimated total cancer risk for organics for an industrial scenario exceeds 1E-5 due to the five PAHs listed previously. The estimated noncancer hazard was acceptable, as it did not exceed 1.0.

Shallow soil samples collected in 2008 did not confirm the elevated PAH concentrations, although it should be noted that not every 2008 sample exactly matched the location of the 1993/1994 samples. The goal of the 2008 sampling was to resample some of the historical hotspot locations, as well as to further characterize the area. The PAH compounds detected in 1993 and 1994 in surface soil samples were commonly found in areas likely receiving runoff from asphalt pavement (due to proximity) and did not correspond to locations where elevated TPH was detected. The lack of deeper PAH detections at elevated concentrations (or exceeding the SSLs) and the lack of confirmation during the 2008 surface soil sampling indicate that PAHs found in surface soil in 1993 and 1994 are unlikely to have resulted from a release of petroleum to the leach field and there is unlikely to be a subsurface source of PAHs that would present an unacceptable risk to future residential or industrial receptors. Based on NMED review comments on the initial version of this Letter Report, it was suggested that site-specific background soil samples be collected proximate to the site to support the assertion that PAHs are related to anthropogenic background (e.g., runoff from asphalt roadways, where these roadways are considered an anthropogenic source). This sampling was performed in August 2014 and results are discussed in Section 2.2 and in the Uncertainty Section (Section 2.8).

2.2 New Soil Samples

Four site-specific background surface soil samples (0 to 0.5 feet) were collected August 25, 2014 proximate to SWMU 127 (**Figure 1**) and analyzed for PAHs via Method 8270 SIM in an attempt to confirm that the previously detected PAHs in shallow soil were related to anthropogenic background (i.e., runoff from nearby asphalt surfaces, such as the roadway and parking lot), as mentioned previously in Section 2.1. In addition, one sample and a field duplicate were collected on August 26, 2014 from just beneath the concrete pad from a depth of 1.5 to 2.5 feet and analyzed for Gasoline Range Organics, Diesel Range Organics, and Residual Range Organics via Method 160.3 to confirm the historical sample results that reported very low TPH concentrations. TPH samples results from 127-SB23 results were nondetect and thus did confirm low concentrations

The anthropogenic background sample locations were selected proximate to the site, within slight depressions that run parallel to existing asphalt roadways, and far enough from the site as to preclude potential migration of site PAHs to these background areas. As stated in the RFI Work Plan (Cannon AFB, 1993), the wash rack sloped to a centrally located drain that contained the sand trap; therefore, migration of site PAHs to the sample locations along the existing asphalt roadways is unlikely. Analytical results from this sampling event are presented on the CD as **Appendix C**.

NMED review comments dated June 3, 2015 questioned the appropriateness of these limited PAH samples for use in reaching a determination of anthropogenic background. The site is adjacent to an asphalt parking lot and an asphalt road, and it is hypothesized that anthropogenic PAHs from these two areas have migrated onto the site, resulting in the measured elevated concentrations of site PAHs. However, NMED is concerned that (1) there are not enough background and site samples to demonstrate a concentration gradient from these two off-site source areas; and (2) potential surface water overland flow migration pathways have not been robustly characterized. Current data do not allow conclusive attribution of elevated PAH concentrations to runoff from asphalt roadways.

After site-specific evaluation and refinement, and as described in Section 2.6, cumulative cancer risk is 8.4E-06 and noncancer HI is 0.39 for an industrial receptor (as shown in Table 7). Therefore, the AF proposes risk-based closure with land use restrictions under an industrial scenario as outlined in the following site-specific evaluation..

2.3 Refined Risk Screening Evaluation for Soil Organics

The five COPCs in soil contributing the most to the total risks for the future hypothetical residential and future industrial land use scenarios were benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene (**Table 2**). Rather than using the maximum detected concentration for these five COPCs in the total risk evaluation, a refined assessment using the 95% upper confidence limit (UCL) on the mean is recommended. Based on soil sample results for the 0 to 10 foot bgs depth interval (a depth interval potentially available for future exposure, assuming the site is redeveloped for residential or industrial land use and building construction brings subsurface soils to the surface), these five COPCs had frequencies of detection of 33 out of 68, 35 out of 68, 31 out of 68, 16 out of 68, and 31 out of 68, respectively (**Appendix A-1**). Using EPA's ProUCL statistical software (v5.0.00) (EPA, 2014), the estimated 95% UCLs for these five PAHs were as follows:

- Benzo(a)anthracene: 774 µg/kg
- Benzo(a)pyrene: 1,104 µg/kg
- Benzo(b)fluoranthene: 1,600 µg/kg
- Dibenzo(a,h)anthracene: 96.1 µg/kg
- Indeno(1,2,3-cd)pyrene: 541 µg/kg

For the data sets for these five PAHs that had non-detects with multiple detection limits, ProUCL uses the Kaplan-Meier (KM) estimation method to derive recommended 95% UCLs (EPA, 2014) (**Appendix A-1**).

Revised total risk and hazard estimates for organics, replacing maximum detected concentrations of these five PAHs with estimated 95% UCLs, are presented in **Table 3**. Because the estimated total cancer risk calculated for exposure to soil for a hypothetical resident exceeds the upper bound of EPA's risk management range (1E-4), the Air Force proposes to restrict future residential land use at this site. Based on this refined evaluation shown in **Table 3**, the total estimated cancer risk for a future hypothetical residential land use scenario was 1.13E-4, while the estimated total noncancer hazard was 0.50. The estimated total cancer risk still exceeded the upper bound of the EPA's risk management range (1E-4). The estimated noncancer hazard was acceptable, as it did not exceed 1.0. The total estimated cancer risk for a future industrial land use scenario was 7.6E-6, while the estimated total noncancer hazard was 0.08. The estimated total cancer risk for an industrial scenario does not exceed 1E-5. The estimated noncancer hazard was acceptable, as it did not exceed 1.0.

It is possible that future exposure may only occur for COPCs in surface soil, not total soil, assuming future building construction does not bring subsurface soils deeper than approximately 2 feet bgs to the surface. To address this uncertainty, 95% UCLs for these five PAHs are also estimated using just surface soil sample results from 0-2 feet bgs, as discussed in the Risk Screening Evaluation Uncertainty Analysis (Section 2.8).

Therefore, site closure using a land use restriction to prohibit future residential land use, thereby ensuring industrial land use, is recommended. Additional considerations related to this recommendation (in addition to the soil depth interval uncertainty mentioned above) are discussed in the following sections.

2.4 Risk Screening Evaluation for Inorganics in Soil

Although there were no metal analytes that exceeded the residential SSLs, total cancer risk and noncancer hazard calculations were performed for the metal constituents (as shown in **Table 4**), using the maximum detected concentrations for all the soil data, per NMED (2014) Guidance. However, metals found to be related to background were excluded from the total risk and hazard calculations, as allowed by NMED (2014). The screen values for background metals were the UTLs from the Cannon Air Force Base Background Study (Cannon AFB, 1997). Of the 20 detected metals in SWMU 127 soil samples, ten were determined to be related to background (**Table 4**). Excluding these background-related metals, the total estimated cancer risk for a future hypothetical residential land use scenario is zero (as the only carcinogen [arsenic] was determined to be related to background), and the estimated total noncancer hazard is 0.68. The future industrial hazards are even lower (0.04). These metal risks and hazards are acceptable.

For informational purposes, the total estimated cancer risk for a future hypothetical residential land use scenario including background metals was 7.1E-6, while the estimated total noncancer hazard was 1.5. The total estimated cancer risk for a future industrial land use scenario including background metals was 1.4E-6, while the estimated total noncancer hazard was 0.09 (**Table 4**).

2.5 Risk Screening Evaluation for Organics in Soil Vapor and New Soil Vapor Samples

The NMED requested an evaluation of the vapor intrusion (VI) pathway for VOCs due to elevated benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations detected in the 1993 and 1994 sampling. The VI pathway was initially evaluated using soil data and the Johnson & Ettinger Soil Model (SL-SCREEN Version 3.1, EPA, 2004). However, subsequent review comments (NMED, 2014) requested the collection of soil vapor data for evaluation of the VI pathway. Therefore, 22 soil vapor samples were collected at the site in August 2014, 11 samples from a depth of 5 feet bgs and 11 samples from a depth of 10 feet bgs. A field duplicate was collected for quality control purposes.

The soil vapor samples were collected as active soil vapor samples using temporary vapor monitoring points installed at 5 feet and 10 feet below ground surface using direct push technology. Each temporary monitoring point was purged using a peristaltic pump prior to sample collection. The samples were collected in 1 liter Summa canisters with a controlled flow pump system and submitted to ALS Laboratories for analysis. Results of the detected VOCs are presented in **Table 5**, ranked from highest to lowest for each parameter. Twenty detected VOCs were entered into the Johnson & Ettinger Soil Vapor Model (SV-ADVANCED Version 2.0, 2003) (**Appendix B**), modified to accept multiple chemicals, updated to use current inhalation toxicity data (NMED, 2014, followed by EPA, 2015) and also revised to update chemical-specific transport parameters, including diffusivity in air and water, and Henry's law, based on the California Department of Toxic Substances Control (DTSC) Johnson & Ettinger Model for Soil Gas (California DTSC, 2014). Future hypothetical residential and future industrial risks and hazards were estimated, using the maximum detected concentrations in the 5 foot samples, as well as in the 10 foot samples. Soil type was set equal to sand, based on known characteristics of the Site. When one of the 20 detected VOCs was not detected in one of the depth intervals, the reporting limit was used as a surrogate concentration (i.e., for bromoform and chloroethane in the 10 foot samples and for cis-1,2-dichlorothene in the 5 foot samples). Several parameter results were not used in the VI assessment, as discussed in the following bullets:

- TPH fraction results, including c5-c8 aliphatics, c9-c10 aromatics, c9-c12 aliphatics, and TPH gasoline, were not used, as VI transport properties such as Henry's Law are not readily available for these types of mixture results. In addition, as a full suite of VOC soil vapor results are available, use of conservative surrogates for TPH mixtures are not needed.

- Results for o-xylene were added to results for m,p-xylene, as the latter is not included in the Johnson & Ettinger Soil Vapor Model. As the toxicity reference concentration for both of these parameters is the same (0.2 mg/m^3), this approach is deemed appropriate.

Based on the results of the VI assessments (**Appendix B**), the total estimated future hypothetical residential cancer risk was 1.1E-6 based on the 5 foot sample results, while the total estimated noncancer hazard index was 0.36. Using the 10 foot sample results, the total estimated future hypothetical residential cancer risk was 2.3E-6, while the total estimated noncancer hazard index was 0.76. The residential risk and hazard driver for both the 5 and 10 foot sampling intervals was trichloroethene. The total estimated future industrial cancer risk was 3.8E-7 based on the 5 foot sample results, while the total estimated noncancer hazard index was 0.13. Using the 10 foot sample results, the total estimated future industrial cancer risk was 7.8E-7, while the total estimated noncancer hazard index was 0.27. To conservatively consider the maximum estimated risk and hazard, by VOC, from both sample depth intervals, **Table 6** presents a combined summary for future inhalation exposure for industrial land use, where the total estimated future industrial cancer risk is 7.9E-7, while the total estimated noncancer hazard index is 0.27.

2.6 Cumulative Risk Screening Evaluation

To consider potential combined risks and hazards for all media, **Table 7** presents cumulative risks and hazards for a future industrial land use scenario. The total estimated cumulative cancer risk is 8.4E-6, which is below 1E-5. The total estimated cumulative noncancer hazard is 0.39, which also is below NMED's target noncancer hazard threshold of 1.0. Based on this cumulative risk evaluation, estimated future industrial risks and hazards are acceptable.

2.7 Risk Screening Evaluation for Potential Leaching for COPCs

An evaluation of potential leaching of COPCs from soil to groundwater was performed. As recommended in NMED (2014), leaching soil screening levels (SSLs) based on a dilution attenuation factor (DAF) of 20 were used. SSLs based on a DAF of 20 are default SSLs that should be applicable at most sites, to account for natural processes that reduce contaminant concentrations in the subsurface. As stated in NMED (2014), SSLs based on a DAF of 1 should only be considered at sites where little or no dilution or attenuation of soil leachate concentrations is expected (e.g., shallow water tables, karst topography), which is not the case for SWMU 127.

For the organic chemicals in soil, the maximum detected concentrations of nine COPCs exceeded SSLs protective of groundwater resources, including benzene, ethylbenzene, toluene, xylenes, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, 2-methylnaphthalene, and naphthalene (**Table 8**). The magnitude of exceedances ranged from a low of 2.8-fold for benzo(b)fluoranthene to a high of 255-fold for naphthalene. For metals, the maximum detected concentrations of four COPCs exceeded SSLs protective of groundwater resources, including arsenic, cobalt, iron, and thallium (**Table 9**). The magnitude of exceedances ranged from a low of 1.4-fold for thallium to a high of 10-fold for arsenic. However, as arsenic, iron, and thallium were determined to be related to background (the maximum detected concentrations were below the background UTLs (**Table 9**), these

metals are not a concern for leaching. For cobalt, the maximum detected concentration of 8 mg/kg exceeded the SSL of 5.4 mg/kg, as well as exceeded the background UTL range of 4.7 mg/kg to 6.6 mg/kg.

The depth to groundwater at the site is approximately 300 feet bgs, the nearest groundwater supply well is screened at 360-410 feet bgs, and evapotranspiration rates are very high in the area. The maximum detected concentrations of the nine organic COPCs exceeding SSLs protective of groundwater resources were all detected in surface soil (either 0 or 0-0.5 ft. bgs), which indicates these organics are unlikely to contribute to groundwater contamination. In addition, it should be noted that the depth of the single cobalt sample that exceeded the background range was sample CAN127-2709-0000 collected from a depth of 0 to 0.5 feet bgs (**Table 1**). As cobalt only exceeded the SSL in surface soil, this is further evidence that this metal is unlikely to contribute to groundwater contamination.

Therefore, adverse impacts to groundwater from leaching of COPCs in soil are considered to be highly unlikely.

2.8 Risk Screening Evaluation Uncertainty Analysis

This subsection discusses some uncertainties associated with the risk screening evaluation, including potential anthropogenic PAHs (Section 2.8.1), the use of total soil samples, and not surface soil samples, for a future industrial exposure scenario (Section 2.8.2), and the representativeness of h**istoric** data compared with more recent data (Section 2.8.3).

2.8.1 Site PAHs Potentially Related to Anthropogenic Background

While the anthropogenic background PAH samples discussed in Section 2.2 were not formally used in the Risk Evaluation up to this point, these results are discussed herein, as they provide additional information and support for the recommended risk-based closure.

As shown in **Table 10**, the maximum detected site concentration of 15 of the 17 PAH compounds at SWMU 127 (except for 2-methylnaphthalene and naphthalene) are below the maximum detected concentration of the four samples collected along the asphalt roadway and/or parking lot (that potentially represent anthropogenic background). For these 15 PAHs, the relative difference was generally quite large, ranging from 2.7-fold to 44-fold, and averaging more than an order of magnitude (10-fold) difference, based on a comparison of the maximum detected site concentration with the maximum detected concentration proximate to the asphalt surfaces. Using the mean background detected concentration; the average difference was 4.5-fold. While there is uncertainty that these four PAH concentrations collected proximate to asphalt surfaces truly represent anthropogenic background (see Section 2.2), additional discussion is provided herein for informational purposes and to support the recommended risk-based closure (i.e., industrial, not residential).

As 15 of the site PAH compounds (i.e., acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo(g,h,i)perylene, benzo[k]fluoranthene, chrysene, dibenzo[ah]anthracene, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene, phenanthrene, and pyrene) were found to have maximum detected site concentrations below concentrations from samples collected along the adjacent asphalt roadway and parking lot (assuming these data do represent anthropogenic background), the risk associated with these PAHs could be eliminated from the total estimated site risk. As shown in the last row of **Table 11**, the total estimated site cancer risk for a future hypothetical residential land use scenario without these PAHs would be 1.4E-5, while the total estimated site cancer risk for a future industrial land use scenario without these PAHs

would be 2.8E-6. When combined with the estimated future residential vapor intrusion risk of 2.3E-6 (Section 2.5), the cumulative cancer risk exceeds 1E-5 (1.4E-5 + 2.3E-6 = 1.6E-5, that rounds to 2E-5).

As this industrial soil risk estimate of 2.8E-6 (without these PAHs) is approximately 2.7-fold lower than the risk estimate with all PAHs (7.6E-6) (**Table 3**) .

2.8.2 Use of Total Soil Samples Compared with Surface Soil Samples for Industrial Scenario

As discussed in Section 2.3, it is possible that future industrial receptors may only be exposed to COPCs in surface soil, not total soil, assuming future building construction does not bring subsurface soils deeper than approximately 2 feet bgs to the surface. To address this uncertainty, 95% UCLs for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were estimated using just the 44 surface soil sample results collected from approximately 0-2 feet bgs. Note: other COPCs are not addressed in this subsection because maximum detected concentrations from 0-10 feet bgs were used in the screening risk evaluation. The 95% UCL for these five PAHs in surface soil (**Appendix A-2)**, as well as the 95% UCLs from total soil (Section 2.3) are as follows:

PAH	95% UCL in Surface Soil (µg/kg)	95% UCL in Total Soil (µg/kg)	Surface Soil Findings
Benzo(a)anthracene	2,242	774	2.9-fold increase
Benzo(a)pyrene	1,677	1,104	1.5-fold increase
Benzo(b)fluoranthene	3,212	1,600	2.0-fold increase
Dibenzo(a,h)anthracene	98.4	96.1	1.0-fold increase
Indeno(1,2,3-cd)pyrene	691	541	1.3-fold increase

The differences in these 95% UCLs are used to scale up the estimated future industrial receptor risk estimates, from **Table 3**, as follows:

PAH	Total Soil Industrial Risk	Increase in Surface Soil 95% UCL, Compared with Total Soil	Estimated Surface Soil Industrial Risk
Benzo(a)anthracene	2.4E-7	2.9-fold increase	7.0E-7
Benzo(a)pyrene	3.4E-6	1.5-fold increase	5.1E-6
Benzo(b)fluoranthene	5.0E-7	2.0-fold increase	1.0E-6
Dibenzo(a,h)anthracene	3.0E-7	1.0-fold increase	3.0E-7
Indeno(1,2,3-cd)pyrene	1.7E-7	1.3-fold increase	2.2E-7
Total Risks:	**4.6E-6**	**'---**	**7.3E-6**

As the total industrial cancer risk for total soil is 7.6E-6 (**Table 3**), an estimate of total industrial cancer risk for surface soil exposure would be 7.6E-6 – 4.6E-6 + 7.3E-6, or 1.0E-5. When estimated vapor intrusion risks (7.9E-7; **Table 7**) are added (1.0E-5 + 7.9E-7 = 1.1E-5, the cumulative risk is still equal to 1E-5 after rounding.

2.8.3 Representativeness of Historic Data Compared with More Recent Data

There is uncertainty associated with the representativeness of some of the most historic (1993/1994) Site soil data, compared with some collocated sample results collected in 2008. For example, the maximum detected concentration of benzo(a)pyrene was 8,000 µg/kg in Sample 12705 collected at 0 feet bgs in September 1993 compared with a concentration of 67 µg/kg in Sample SB16 collected at 0-3 feet bgs in February 2008, that was approximately 5 feet away (**Figure 2**). Although these two samples were collected from different sample depths, the horizontal collection locations were quite close together, and the measured concentration in 2008 was lower by approximately two orders of magnitude than the concentration measured in 1993. PAHs such as benzo(a)pyrene may decline in concentration over time as a result of degradation due to weathering, especially in surface soils. Therefore, use of the 1993 sample result may overestimate current Site risks. If the benzo(a)pyrene result from Sample 12705 was excluded from the Risk Evaluation (and the result from Sample SB16 was retained as a more representative collocated result), the estimated 95% UCL on the mean for this PAH would drop from 1,104 µg/kg to 220 µg/kg in total soil (0-10 feet bgs) and would drop from 1,677 µg/kg to 395 µg/kg in surface soil. These alternative 95% UCLs still exceed the residential SSL for this PAH (153 µg/kg); however, this uncertainty evaluation suggests that the Site area with the highest benzo(a)pyrene concentration is more limited in extent since the maximum detected concentration was not confirmed in 2008.

3.0 Ecological Risk Evaluation

Using the Ecological Site Exclusion Criteria Decision Tree (Attachment B to Volume 2 of Risk Assessment Guidance for Investigations and Remediation; NMED, 2012), no sensitive areas exist at or adjacent to SWMU 127, the site does not contain other land areas which could be considered viable ecological habitat, and the site does not contain any perennial or ephemeral aquatic features. As no viable ecological habitat exists at the site and with the site's relative close proximity to the active flight line and other industrial facilities, no ecological receptors are expected to be present, and therefore, ecological risks are not a concern. Therefore, a detailed ecological assessment is not warranted.

4.0 Conclusions

For NMED's review, we have attached backup files on a compact disk with the ProUCL input and output files (**Appendix A**), as well as the Johnson & Ettinger Model input and output files (**Appendix B**). Based on the results of this risk screening evaluation, cumulative cancer risk and noncancer hazards for future hypothetical residential receptors is unacceptable, as estimated cancer risks exceed 1E-4 and the hazard index exceeds 1. Based on the results of this risk screening, the level of risk and hazard for current and future potential industrial receptors is acceptable, as the estimated cumulative risk is less than or equal to 1E-5 and the hazard is less than 1. Therefore, we request approval to proceed with a corrective action complete (with controls) proposal for SWMU 127.

5.0 References

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Sincerely,

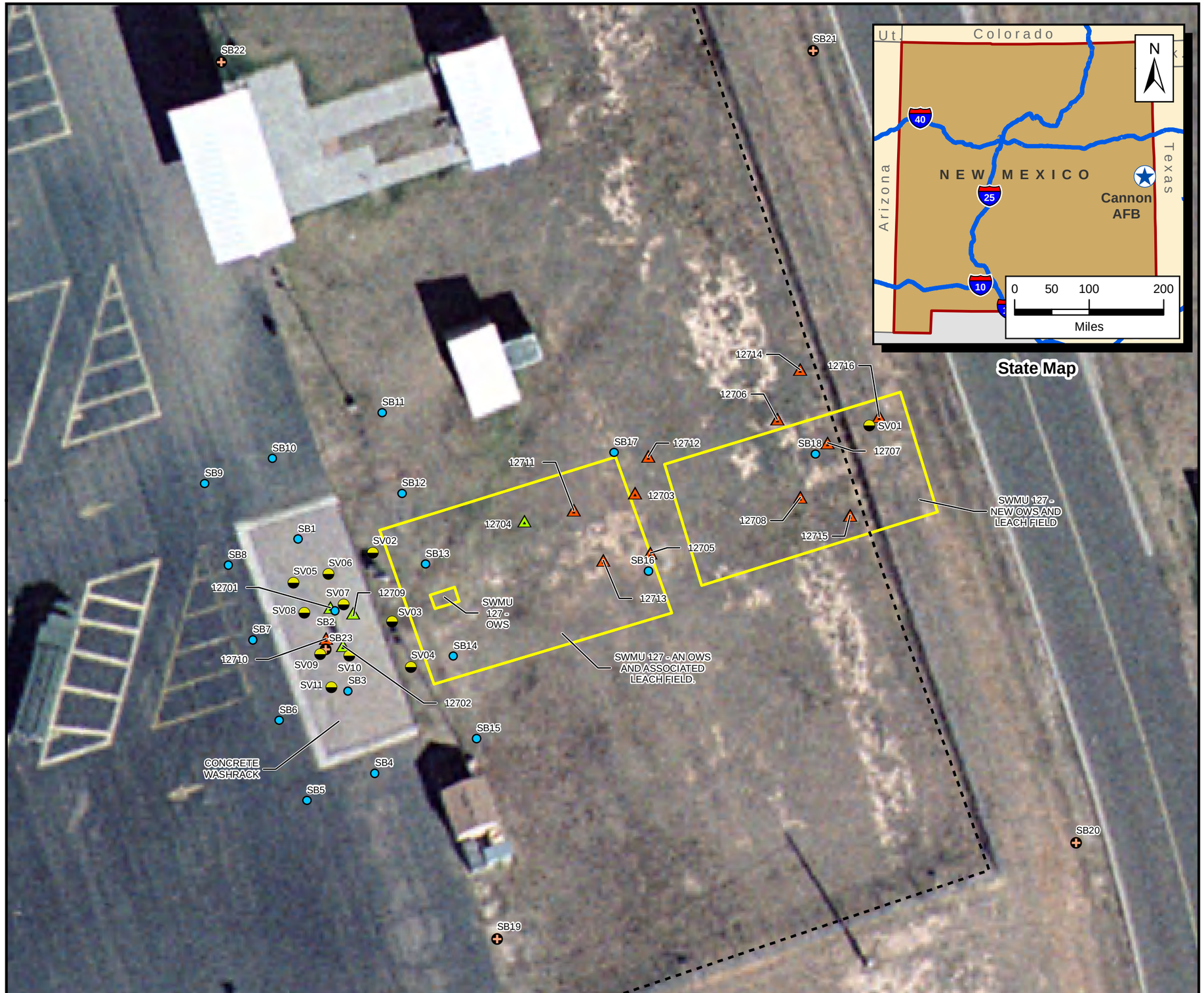
William A. Foss
CB&I Technical Lead – Cannon AFB, Midwest PBR

Cc: Dave Cobrain, NMED HWB
Brian Renaghan, AFCEC
Sheen Kottkamp, 27 SOCES/CEIER
Praveen Srivastav, CB&I Federal Services LLC
Project File (w/ attachments)

Attachments: Figure 1 – SWMU 127 Sampling Locations
Figure 2 – SWMU 127 Sample Locations with Exceedances

Table 1 – Summary of 1993, 1994, and 2008 Soil Analytical Results for SWMU 127
Table 2 – Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Table 3 – Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Table 4 – Total Risk and Hazard Calculations for Metals in Soil, SWMU 127
Table 5 – Detected Soil Vapor Results, SWMU 127
Table 6 – Summary of Estimated Industrial Indoor Air Risks and Hazards Using Maximum Detected Concentrations from Soil Vapor Samples Collected from Two Depths
Table 7 - Cumulative Risks and Hazards, Industrial Land Use Scenario, All Media, SWMU 127
Table 8 - Soil Leaching Evaluation – Organics at SWMU 127
Table 9 - Soil Leaching Evaluation – Metals at SWMU 127
Table 10 – Comparison of Maximum Detected Concentrations of PAH in Soil with Site-Specific Background Concentrations, SWMU 127
Table 11 – Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis, SWMU 127
Table 12 – Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127 (on CD)
Appendix A - Pro-UCL Input and Output Files (on CD)
Appendix B - Johnson & Ettinger Vapor Intrusion Model Input and Output Files (on CD)
Appendix C – 2014 Soil and Soil Vapor Sample Analytical Results (on CD)

FIGURES



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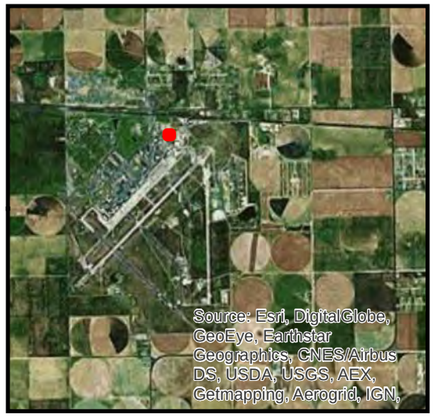
LEGEND

- Soil Sample Location (2014)
- Soil Vapor Sample Location (2014)
- Voluntary Corrective Measure Soil Sample Location (2008)
- Remedial Investigation Sample Location (1993/1994) with Exceedance of NMED SSL
- Remedial Investigation Sample Location (1993/1994)
- Fence Line
- SWMU 127 OWS and Leachfield Boundary

OWS = Oil/Water Separator
SWMU = Solid Waste Management Unit



SITE LOCATION

N

0 12.5 25 50 Feet

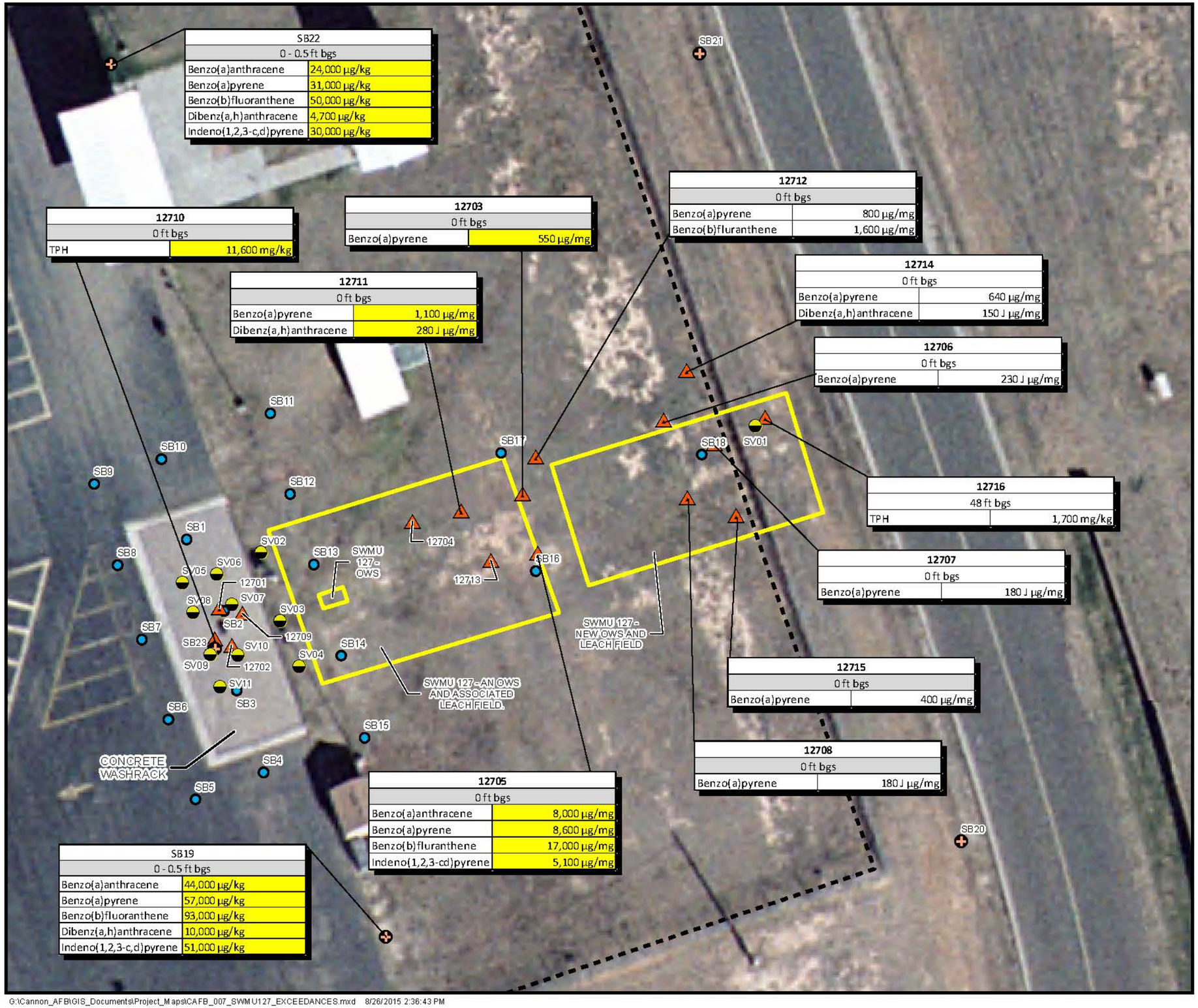
0 2.5 5 10 Meters

CANNON AIR FORCE BASE, NEW MEXICO

POL WASH PAD (SWMU 127)

FIGURE 1

SAMPLING LOCATIONS



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LEGEND

- Soil Sample Location (2014)
- Soil Vapor Sample Location (2014)
- Remedial Investigation Sample Location (1993/1994)
- Voluntary Corrective Measure Soil Sample Location (2008)
- Fence Line
- SWMU 127 OWS and Leachfield Boundary
- Highlighted Result Indicates Exceedance of NMED Residential SSL

ft bgs = feet below ground surface
NMED = New Mexico Environment Department
OWS = Oil/Water Separator
PAH = Polyaromatic Hydrocarbon
SSL = Soil Screening Limit
SWMU = Solid Waste Management Unit
µg/mg = micrograms per milligram

SITE LOCATION

N

0 12.5 25 50 Feet

0 2.5 5 10 Meters

CANNON AIR FORCE BASE, NEW MEXICO

POL WASH PAD (SWMU 127)

FIGURE 2

SAMPLE LOCATIONS WITH EXCEEDANCES

TABLES

Table 1
SWMU 127 POL Wash Pad
Summary of 1993[a], 1994[b], and 2008[c] Soil Analytical Results
Cannon Air Force Base, New Mexico

Analyte	Maximum Detected Concentration			NMED SSL Concentration [d]		Units	Frequency of Detection	Number of Samples that Exceed the NMED Residential SSL
	Result	RL	Qual	Residential	Industrial			
Acetone	7.50E+03	1.40E+04	J	6.66E+07	8.68E+08	ug/kg	31 of 141	NA
Benzene	3.80E+03	7.20E+03	J	1.54E+04	8.47E+04	ug/kg	2 of 141	NA
Bromodichloromethane	ND	--	--	5.41E+03	3.01E+04	ug/kg	0 of 141	NA
Bromoform [e]	ND	--	--	6.20E+04	2.20E+05	ug/kg	0 of 141	NA
Bromomethane	ND	--	--	1.65E+04	8.65E+04	ug/kg	0 of 141	NA
2-Butanone (MEK)	6.20E+01	1.10E+01	J	3.71E+07	3.75E+08	ug/kg	4 of 141	NA
Carbon disulfide	ND	--	--	1.53E+06	8.33E+06	ug/kg	0 of 141	NA
Carbon tetrachloride	2.70E+00	5.80E+00	J	1.08E+04	5.98E+04	ug/kg	1 of 141	NA
Chlorobenzene	1.30E+00	5.80E+00	J	3.76E+05	2.12E+06	ug/kg	2 of 141	NA
Chloroethane (ethyl chloride) [e]	ND	--	--	1.50E+07	6.10E+07	ug/kg	0 of 141	NA
Chloroform	ND	--	--	5.86E+03	3.27E+04	ug/kg	0 of 141	NA
Chloromethane	ND	--	--	2.75E+05	1.29E+06	ug/kg	0 of 141	NA
Dibromochloromethane	ND	--	--	1.21E+04	6.24E+04	ug/kg	0 of 141	NA
1,1-Dichloroethane	ND	--	--	6.45E+04	3.59E+05	ug/kg	0 of 141	NA
1,2-Dichloroethane	1.90E+00	5.20E+00	J	7.89E+03	4.35E+04	ug/kg	1 of 141	NA
1,1-Dichloroethene	1.90E+00	5.80E+00	J	4.49E+05	2.29E+06	ug/kg	1 of 141	NA
1,2-Dichloroethene (total)	1.30E+00	5.80E+00	J	NE	NE	ug/kg	1 of 141	NA
1,2-Dichloropropane	1.30E+01	5.40E+00		1.52E+04	8.44E+04	ug/kg	4 of 141	NA
cis-1,3-Dichloropropene	ND	--	--	NE	NE	ug/kg	0 of 141	NA
trans-1,3-Dichloropropene	ND	--	--	NE	NE	ug/kg	0 of 141	NA
Ethylbenzene	5.40E+04	7.20E+03		6.84E+04	3.78E+05	ug/kg	4 of 141	NA
2-Hexanone [e]	ND	--	--	2.10E+05	1.40E+06	ug/kg	0 of 141	NA
4-Methyl-2-pentanone (MIBK)	3.30E+00	1.10E+01	J	5.82E+06	7.38E+07	ug/kg	1 of 141	NA
Methylene chloride	9.10E+00	5.50E+00		4.09E+05	4.70E+06	ug/kg	47 of 141	NA
Styrene	ND	--	--	7.28E+06	5.00E+07	ug/kg	0 of 141	NA
1,1,2,2-Tetrachloroethane	ND	--	--	8.02E+03	4.35E+04	ug/kg	0 of 141	NA
Tetrachloroethene	2.90E+00	5.80E+00	J	7.02E+03	3.66E+04	ug/kg	1 of 141	NA
Toluene	8.20E+04	5.80E+00		5.27E+06	5.77E+07	ug/kg	30 of 141	NA
1,1,1-Trichloroethane	1.80E+00	5.80E+00	J	1.56E+07	7.89E+07	ug/kg	1 of 141	NA
1,1,2-Trichloroethane	ND	--	--	2.81E+03	1.33E+04	ug/kg	0 of 141	NA
Trichloroethene	2.30E+00	5.80E+00	J	8.77E+03	4.13E+04	ug/kg	1 of 141	NA
Vinyl acetate	ND	--	--	2.56E+06	1.23E+07	ug/kg	0 of 141	NA
Vinyl chloride	ND	--	--	7.28E+02	2.61E+04	ug/kg	0 of 141	NA
Xylenes (total)	2.60E+05	5.20E+00		8.14E+05	3.98E+06	ug/kg	8 of 141	NA
Acenaphthene	1.50E+02	1.40E+03	J	3.44E+06	3.67E+07	ug/kg	2 of 127	NA
Acenaphthylene	7.80E+01	2.20E+02	J	NE	NE	ug/kg	5 of 127	NA
Anthracene	1.00E+02	3.50E+02	J	1.72E+07	1.83E+08	ug/kg	7 of 127	NA
Benzo(a)anthracene	**8.00E+03**	1.40E+03		1.48E+03	2.34E+04	ug/kg	33 of 127	1
Benzo(a)pyrene	**8.60E+03**	1.40E+03		1.48E+02	2.34E+03	ug/kg	35 of 127	1
Benzo(b)fluoranthene	**1.70E+04**	1.40E+03		1.48E+03	2.34E+04	ug/kg	31 of 127	3
Benzo(g,h,i)perylene	5.10E+03	1.40E+03		NE	NE	ug/kg	29 of 127	NA
Benzo(k)fluoranthene	1.60E+03	1.10E+01		1.48E+04	2.34E+05	ug/kg	23 of 127	NA

Table 1
SWMU 127 POL Wash Pad
Summary of 1993[a], 1994[b], and 2008[c] Soil Analytical Results
Cannon Air Force Base, New Mexico

Analyte	Maximum Detected Concentration			NMED SSL Concentration [d]		Units	Frequency of Detection	Number of Samples that Exceed the NMED Residential SSL
	Result	RL	Qual	Residential	Industrial			
Benzoic acid [e]	4.80E+01	1.80E+03	J	2.40E+05	2.50E+06	ug/kg	1 of 90	NA
Benzyl alcohol [e]	ND	--	--	6.10E+06	6.20E+07	ug/kg	0 of 106	NA
bis(2-Chloroethoxy) methane [e]	ND	--	--	1.80E+05	1.80E+06	ug/kg	0 of 106	NA
bis(2-Chloroethyl) ether	ND	--	--	2.68E+03	1.42E+04	ug/kg	0 of 106	NA
bis(2-Chloroisopropyl) ether	ND	--	--	9.15E+04	4.54E+05	ug/kg	0 of 106	NA
bis(2-Ethylhexyl) phthalate	1.30E+04	1.40E+03		3.47E+05	1.37E+06	ug/kg	25 of 106	NA
4-Bromophenyl phenyl ether	ND	--	--	NE	NE	ug/kg	0 of 106	NA
Butyl benzyl phthalate	1.10E+02	3.80E+02	J	2.60E+05	9.10E+05	ug/kg	2 of 106	NA
Carbazole	1.50E+03	1.40E+03		NE	NE	ug/kg	8 of 106	NA
4-Chloro-3-methylphenol (Cresol, p-chloro-m-) [e]	ND	--	--	6.10E+06	6.20E+07	ug/kg	0 of 106	NA
4-Chloroaniline [e]	ND	--	--	2.40E+03	8.60E+03	ug/kg	0 of 106	NA
2-Chloronaphthalene	ND	--	--	6.26E+06	9.08E+07	ug/kg	0 of 106	NA
2-Chlorophenol	ND	--	--	3.91E+05	5.68E+06	ug/kg	0 of 106	NA
4-Chlorophenyl phenyl ether	ND	--	--	NE	NE	ug/kg	0 of 106	NA
Chrysene	1.40E+04	1.40E+03		1.48E+05	2.34E+06	ug/kg	36 of 127	NA
Di-n-butyl phthalate [e]	1.90E+02	3.80E+02	J	6.10E+06	6.20E+07	ug/kg	10 of 106	NA
Di-n-octyl phthalate [e]	3.10E+02	3.70E+02	J	6.10E+05	6.20E+06	ug/kg	2 of 106	NA
Dibenz(a,h)anthracene	**3.10E+02**	2.20E+01		1.48E+02	2.34E+03	ug/kg	16 of 127	1
Dibenzofuran	ND	--	--	NE	NE	ug/kg	0 of 106	NA
1,2-Dichlorobenzene	ND	--	--	2.31E+06	1.40E+07	ug/kg	0 of 106	NA
1,3-Dichlorobenzene	ND	--	--	NE	NE	ug/kg	0 of 106	NA
1,4-Dichlorobenzene	ND	--	--	3.17E+04	1.77E+05	ug/kg	0 of 106	NA
2,4-Dichlorophenol	ND	--	--	1.83E+05	2.05E+06	ug/kg	0 of 106	NA
3,3'-Dichlorobenzidine	ND	--	--	1.08E+04	4.26E+04	ug/kg	0 of 106	NA
Diethyl phthalate	4.60E+01	3.60E+02	J	4.89E+07	5.47E+08	ug/kg	1 of 106	NA
2,4-Dimethylphenol	ND	--	--	1.22E+06	1.37E+07	ug/kg	0 of 106	NA
Dimethyl phthalate	ND	--	--	6.11E+08	6.84E+09	ug/kg	0 of 106	NA
4,6-Dinitro-2-methylphenol	ND	--	--	4.89E+03	5.47E+04	ug/kg	0 of 106	NA
2,4-Dinitrophenol	ND	--	--	1.22E+05	1.37E+06	ug/kg	0 of 106	NA
2,4-Dinitrotoluene	ND	--	--	1.57E+04	6.18E+04	ug/kg	0 of 106	NA
2,6-Dinitrotoluene	ND	--	--	6.11E+04	6.84E+05	ug/kg	0 of 106	NA
Fluoranthene	1.70E+04	1.40E+03		2.29E+06	2.44E+07	ug/kg	32 of 127	NA
Fluorene	2.90E+02	1.40E+03	J	2.29E+06	2.44E+07	ug/kg	2 of 127	NA
Hexachlorobenzene	ND	--	--	3.04E+03	1.20E+04	ug/kg	0 of 106	NA
Hexachlorobutadiene	ND	--	--	6.11E+04	2.46E+05	ug/kg	0 of 106	NA
Hexachlorocyclopentadiene	ND	--	--	3.67E+05	4.10E+06	ug/kg	0 of 106	NA
Hexachloroethane	ND	--	--	4.28E+04	4.79E+05	ug/kg	0 of 106	NA
Indeno(1,2,3-cd)pyrene	**5.10E+03**	1.40E+03		1.48E+03	2.34E+04	ug/kg	31 of 127	1
Isophorone	ND	--	--	5.12E+06	1.37E+08	ug/kg	0 of 106	NA
2-Methylnaphthalene [e]	4.00E+04	3.50E+02	J	2.30E+05	2.20E+06	ug/kg	3 of 106	NA
2-Methylphenol (o-cresol) [e]	ND	--	--	3.10E+06	3.10E+07	ug/kg	0 of 106	NA
3/4-Methylphenol	ND	--	--	NE	NE	ug/kg	0 of 106	NA
Naphthalene	2.10E+04	3.80E+04	J	4.30E+04	2.41E+05	ug/kg	1 of 127	NA
2-Nitroaniline [e]	ND	--	--	6.10E+05	6.00E+06	ug/kg	0 of 106	NA

Table 1
SWMU 127 POL Wash Pad
Summary of 1993[a], 1994[b], and 2008[c] Soil Analytical Results
Cannon Air Force Base, New Mexico

Analyte	Maximum Detected Concentration			NMED SSL Concentration [d]		Units	Frequency of Detection	Number of Samples that Exceed the NMED Residential SSL
	Result	RL	Qual	Residential	Industrial			
3-Nitroaniline	ND	--	--	NE	NE	ug/kg	0 of 106	NA
4-Nitroaniline [e]	ND	--	--	2.40E+04	8.60E+05	ug/kg	0 of 106	NA
Nitrobenzene	ND	--	--	5.35E+04	3.00E+05	ug/kg	0 of 106	NA
2-Nitrophenol	ND	--	--	NE	NE	ug/kg	0 of 106	NA
4-Nitrophenol	ND	--	--	NE	NE	ug/kg	0 of 106	NA
N-Nitroso-di-n-propylamine [e]	ND	--	--	6.90E+01	2.50E+02	ug/kg	0 of 106	NA
N-Nitrosodiphenylamine	ND	--	--	9.93E+05	3.91E+06	ug/kg	0 of 106	NA
Pentachlorophenol	ND	--	--	8.94E+03	3.00E+04	ug/kg	0 of 106	NA
Phenanthrene	8.10E+03	1.40E+03		1.83E+06	2.05E+07	ug/kg	31 of 127	NA
Phenol	ND	--	--	1.83E+07	2.05E+08	ug/kg	0 of 106	NA
Pyrene	1.70E+04	1.40E+03		1.72E+06	1.83E+07	ug/kg	34 of 127	NA
1,2,4-Trichlorobenzene	ND	--	--	7.30E+04	3.67E+05	ug/kg	0 of 106	NA
2,4,5-Trichlorophenol	ND	--	--	6.11E+06	6.84E+07	ug/kg	0 of 106	NA
2,4,6-Trichlorophenol	ND	--	--	6.11E+04	6.84E+05	ug/kg	0 of 106	NA
Total Petroleum Hydrocarbons	**1.16E+04**	8.39E+01		1.00E+03	1.00E+03	mg/kg	33 of 62	1
TPH-Diesel Range Organics [f]	2.60E+01	1.20E+01		1.00E+03	1.00E+03	mg/kg	1 of 21	NA
TPH-Oil Range Organics [f]	1.70E+01	2.40E+01	J	1.00E+03	1.00E+03	mg/kg	6 of 21	NA
TPH-Gasoline Range Organics [f]	ND	--	--	1.00E+03	1.00E+03	mg/kg	0 of 21	NA
Aluminum	1.47E+04			7.80E+04	1.13E+06	mg/kg	79 of 79	NA
Antimony	0.00E+00			3.13E+01	4.54E+02	mg/kg	1 of 79	NA
Arsenic	3.00E+00			3.90E+00	1.77E+01	mg/kg	79 of 79	NA
Barium	1.54E+03			1.56E+04	2.23E+05	mg/kg	79 of 79	NA
Beryllium	7.60E-01			1.56E+02	2.26E+03	mg/kg	74 of 79	NA
Cadmium	7.70E-01			7.03E+01	8.97E+02	mg/kg	2 of 79	NA
Calcium	1.80E+06			NE	NE	mg/kg	79 of 79	NA
Chromium	2.14E+01			1.17E+05	1.70E+06	mg/kg	77 of 79	NA
Cobalt	8.00E+00			NE	NE	mg/kg	72 of 79	NA
Copper	4.58E+01			3.13E+03	4.54E+04	mg/kg	77 of 79	NA
Iron	1.15E+04			5.48E+04	7.95E+05	mg/kg	79 of 79	NA
Lead	1.28E+02			4.00E+02	8.00E+02	mg/kg	79 of 79	NA
Magnesium	1.50E+04			NE	NE	mg/kg	79 of 79	NA
Manganese	3.40E+02			1.86E+03	2.67E+04	mg/kg	79 of 79	NA
Mercury	0.00E+00			1.56E+01	7.36E+01	mg/kg	0 of 79	NA
Nickel	1.36E+01			1.56E+03	2.25E+04	mg/kg	79 of 79	NA
Potassium	3.23E+03			NE	NE	mg/kg	79 of 162	NA
Selenium	2.50E-01			3.91E+02	5.68E+03	mg/kg	11 of 79	NA
Silver	0.00E+00			3.91E+02	5.68E+03	mg/kg	0 of 79	NA
Sodium	5.21E+02			NE	NE	mg/kg	2 of 79	NA
Thallium	3.80E-01			7.82E-01	1.14E+01	mg/kg	19 of 79	NA
Vanadium	2.32E+01			3.91E+02	5.68E+03	mg/kg	79 of 79	NA
Zinc	4.11E+01			2.35E+04	3.41E+05	mg/kg	79 of 79	NA

Table 1
SWMU 127 POL Wash Pad
Summary of 1993a, 1994b, and 2008c Soil Analytical Results
Cannon Air Force Base, New Mexico

Notes:

[a] Woodward-Clyde Consultants, Inc., 1994. *RCRA Facility Investigations, Appendix III SWMUs - Phase I, Cannon Air Force Base, New Mexico* , February.

[b] Woodward-Clyde Consultants, Inc., 1997. *RCRA Facility Investigations, Appendix III SWMUs - Phase II, Cannon Air Force Base, New Mexico* .

[c] Bay West, Inc. and Tetra Tech EC, Inc., 2008. *Final Letter Report, Voluntary Corrective Aciton, AGE Maintenance Facility Shop Pad (SWMU 31) and POL Wash Pad (SWMU 127), Cannon Air Force Base, New Mexico* , Rev 01, July 2008.

[d] New Mexico Environment Department (NMED), 2012. Table A-1: NMED Soil Screening Levels, *Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document* , Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, February 2012, Table A-1 updated June 2012.

[e] U.S. Environmental Protection Agency (EPA), 2013. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, May.

[f] New Mexico Environment Department (NMED), 2012. Table 6-2. TPH Screening Guidelines for Potable Groundwater (GW-1), Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, February 2012. Values provided are for unknown oil.

BOLD	**Bold** font and Yellow highlight indicates the maximum concentration exceeds the NMED residential SSL.
AFB	= Air Force Base
bgs	= below ground surface
EPA	= U.S. Environmental Protection Agency
J	= Result concentration is estimated
MEK	= Methyl ethyl ketone
mg/kg	= milligram per kilogram
ND	= Result not detected
NE	= Not established
NMED	= New Mexico Environment Department
NS	= Not sampled
ORO	= oil range organics
PCB	= polychlorinated biphenyl
Qual	= Qualifier
RCRA	= Resource Conservation and Recovery Act
R	= Result is unusable.
RL	= Reporting limit
SSL	= soil screening level
SVOC	= Semi-volatile organic compound
SWMU	= Solid Waste Management Unit
TEQ	= toxic equivalency quotient
TPH	= Total petroleum hydrocarbons
U	= Result not detected
ug/kg	= micrograms per kilogram
VOC	= Volatile organic compound

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Acetone	Result (ug/kg)	7.50E+03	6.63E+07	9.60E+08	N		0.0001		0.000008
	RL (ug/kg)	1.40E+04							
	Qual	J							
Benzene	Result (ug/kg)	3.80E+03	1.78E+04	8.72E+04	C	2.1E-06		4.4E-07	
	RL (ug/kg)	7.20E+03							
	Qual	J							
Bromodichloro-methane	Result (ug/kg)	ND	6.19E+03	3.02E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Bromoform [b]	Result (ug/kg)	ND	1.90E+05	8.60E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Bromomethane	Result (ug/kg)	ND	1.77E+04	9.45E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2-Butanone (MEK)	Result (ug/kg)	6.20E+01	3.74E+07	4.11E+08	N		0.000002		0.0000002
	RL (ug/kg)	1.10E+01							
	Qual	J							
Carbon disulfide	Result (ug/kg)	ND	1.55E+06	8.54E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Carbon tetrachloride	Result (ug/kg)	2.70E+00	1.07E+04	5.25E+04	C	2.5E-09		5.1E-10	
	RL (ug/kg)	5.80E+00							
	Qual	J							
Chlorobenzene	Result (ug/kg)	1.30E+00	3.78E+05	2.16E+06	N		0.000003		0.0000006
	RL (ug/kg)	5.80E+00							
	Qual	J							

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Chloroethane (ethyl chloride)	Result (ug/kg)	ND	1.90E+07	8.95E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Chloroform	Result (ug/kg)	ND	5.90E+03	2.87E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Chloromethane	Result (ug/kg)	ND	4.11E+04	2.01E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Dibromochloro-methane	Result (ug/kg)	ND	1.39E+04	6.74E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,1-Dichloroethane	Result (ug/kg)	ND	7.86E+04	3.83E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,2-Dichloroethane	Result (ug/kg)	1.90E+00	8.32E+03	4.07E+04	C	2.3E-09		4.7E-10	
	RL (ug/kg)	5.20E+00							
	Qual	J							
1,1-Dichloroethene	Result (ug/kg)	1.90E+00	4.40E+05	2.26E+06	N		0.000004		0.0000008
	RL (ug/kg)	5.80E+00							
	Qual	J							
1,2-Dichloroethene (total) (assumed cis-1,2-DCE) [b]	Result (ug/kg)	1.30E+00	1.56E+05	2.60E+06	N		0.000008		0.0000005
	RL (ug/kg)	5.80E+00							
	Qual	J							
1,2-Dichloropropane	Result (ug/kg)	1.30E+01	1.78E+04	8.68E+04	C	7.3E-09		1.5E-09	
	RL (ug/kg)	5.40E+00							
	Qual								

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
cis-1,3-Dichloropropene	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
trans-1,3-Dichloropropene	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Ethylbenzene	Result (ug/kg)	5.40E+04	7.51E+04	3.68E+05	C	7.2E-06		1.5E-06	
	RL (ug/kg)	7.20E+03							
	Qual								
2-Hexanone [b]	Result (ug/kg)	ND	2.00E+05	1.30E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Methyl-2-pentanone (MIBK)	Result (ug/kg)	3.30E+00	5.81E+06	8.16E+07	N		0.000001		0.00000004
	RL (ug/kg)	1.10E+01							
	Qual	J							
Methylene chloride	Result (ug/kg)	9.10E+00	4.09E+05	5.13E+06	N		0.00002		0.000002
	RL (ug/kg)	5.50E+00							
	Qual								
Styrene	Result (ug/kg)	ND	7.26E+06	5.13E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,1,2,2-Tetrachloro-ethane	Result (ug/kg)	ND	7.98E+03	3.94E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Tetrachloro-ethene	Result (ug/kg)	2.90E+00	1.11E+05	6.29E+05	N		0.00003		0.000005
	RL (ug/kg)	5.80E+00							
	Qual	J							

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Toluene	Result (ug/kg)	8.20E+04	5.23E+06	6.13E+07	N		0.02		0.001
	RL (ug/kg)	5.80E+00							
	Qual								
1,1,1-Trichloroethane	Result (ug/kg)	1.80E+00	1.44E+07	7.25E+07	N		0.0000001		0.00000002
	RL (ug/kg)	5.80E+00							
	Qual	J							
1,1,2-Trichloroethane	Result (ug/kg)	ND	2.61E+03	1.24E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Trichloroethene	Result (ug/kg)	2.30E+00	6.77E+03	3.65E+04	N		0.0003		0.00006
	RL (ug/kg)	5.80E+00							
	Qual	J							
Vinyl acetate	Result (ug/kg)	ND	2.56E+06	1.24E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Vinyl chloride	Result (ug/kg)	ND	7.42E+02	2.84E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Xylenes (total)	Result (ug/kg)	2.60E+05	8.71E+05	4.28E+06	N		0.30		0.06
	RL (ug/kg)	5.20E+00							
	Qual								
Acenaphthene	Result (ug/kg)	1.50E+02	3.48E+06	5.05E+07	N		0.00004		0.000003
	RL (ug/kg)	1.40E+03							
	Qual	J							
Acenaphthylene	Result (ug/kg)	7.80E+01	NE	NE	--	NE	NE	NE	NE
	RL (ug/kg)	2.20E+02							
	Qual	J							

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Anthracene	Result (ug/kg)	1.00E+02	1.74E+07	2.53E+08	N		0.000006		0.0000004
	RL (ug/kg)	3.50E+02							
	Qual	J							
Benzo(a)-anthracene	Result (ug/kg)	8.00E+03	1.53E+03	3.23E+04	C	5.2E-05		2.5E-06	
	RL (ug/kg)	1.40E+03							
	Qual								
Benzo(a)pyrene	Result (ug/kg)	8.60E+03	1.53E+02	3.23E+03	C	5.6E-04		2.7E-05	
	RL (ug/kg)	1.40E+03							
	Qual								
Benzo(b)-fluoranthene	Result (ug/kg)	1.70E+04	1.53E+03	3.23E+04	C	1.1E-04		5.3E-06	
	RL (ug/kg)	1.40E+03							
	Qual								
Benzo(g,h,i)-perylene	Result (ug/kg)	5.10E+03	NE	NE	--	NE	NE	NE	NE
	RL (ug/kg)	1.40E+03							
	Qual								
Benzo(k)-fluoranthene	Result (ug/kg)	1.60E+03	1.53E+04	3.23E+05	C	1.0E-06		5.0E-08	
	RL (ug/kg)	1.10E+01							
	Qual								
Benzoic acid [b]	Result (ug/kg)	4.80E+01	2.50E+08	3.30E+09	N		0.0000002		0.00000001
	RL (ug/kg)	1.80E+03							
	Qual	J							
Benzyl alcohol [b]	Result (ug/kg)	ND	6.30E+06	8.20E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
bis(2-Chloroethoxy) methane [b]	Result (ug/kg)	ND	1.90E+05	2.50E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
bis(2-Chloroethyl) ether	Result (ug/kg)	ND	3.11E+03	1.57E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
bis(2-Chloroisopropyl) ether	Result (ug/kg)	ND	9.93E+04	5.19E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
bis(2-Ethylhexyl) phthalate	Result (ug/kg)	1.30E+04	3.80E+05	1.83E+06	C	3.4E-07		7.1E-08	
	RL (ug/kg)	1.40E+03							
	Qual								
4-Bromophenyl phenyl ether	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Butyl benzyl phthalate [b]	Result (ug/kg)	1.10E+02	2.90E+06	1.20E+07	C	3.8E-10		9.2E-11	
	RL (ug/kg)	3.80E+02							
	Qual	J							
Carbazole	Result (ug/kg)	1.50E+03	NE	NE	--	NE	NE	NE	NE
	RL (ug/kg)	1.40E+03							
	Qual								
4-Chloro-3-methylphenol (Cresol, p-chloro-m-) [b]	Result (ug/kg)	ND	6.30E+06	8.20E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Chloroaniline [b]	Result (ug/kg)	ND	2.70E+04	1.10E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2-Chloro-naphthalene	Result (ug/kg)	ND	6.26E+06	1.04E+08	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
2-Chlorophenol	Result (ug/kg)	ND	3.91E+05	6.49E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Chlorophenyl phenyl ether	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Chrysene	Result (ug/kg)	1.40E+04	6.53E+05	3.23E+06	C	2.1E-07		4.3E-08	
	RL (ug/kg)	1.40E+03							
	Qual								
Di-n-butyl phthalate [b]	Result (ug/kg)	1.90E+02	6.30E+06	8.20E+07	N		0.00003		0.000002
	RL (ug/kg)	3.80E+02							
	Qual	J							
Di-n-octyl phthalate [b]	Result (ug/kg)	3.10E+02	6.30E+05	8.20E+06	N		0.0005		0.00004
	RL (ug/kg)	3.70E+02							
	Qual	J							
Dibenz(a,h)-anthracene	Result (ug/kg)	3.10E+02	1.53E+02	3.23E+03	C	2.0E-05		9.6E-07	
	RL (ug/kg)	2.20E+01							
	Qual								
Dibenzofuran [b]	Result (ug/kg)	ND	7.30E+04	1.00E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,2-Dichlorobenzene	Result (ug/kg)	ND	2.15E+06	1.30E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,3-Dichlorobenzene	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
1,4-Dichlorobenzene	Result (ug/kg)	ND	3.28E+04	1.59E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4-Dichlorophenol	Result (ug/kg)	ND	1.85E+05	2.75E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
3,3'-Dichlorobenzidine	Result (ug/kg)	ND	1.18E+04	5.70E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Diethyl phthalate	Result (ug/kg)	4.60E+01	4.93E+07	7.33E+08	N		0.000001		0.00000006
	RL (ug/kg)	3.60E+02							
	Qual	J							
2,4-Dimethylphenol	Result (ug/kg)	ND	1.23E+06	1.83E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Dimethyl phthalate [b]	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4,6-Dinitro-2-methylphenol	Result (ug/kg)	ND	4.93E+03	7.33E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4-Dinitrophenol	Result (ug/kg)	ND	1.30E+05	1.83E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4-Dinitrotoluene	Result (ug/kg)	ND	1.71E+04	8.23E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
2,6-Dinitrotoluene	Result (ug/kg)	ND	3.56E+03	1.72E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Fluoranthene	Result (ug/kg)	1.70E+04	2.32E+06	3.37E+07	N		0.007		0.0005
	RL (ug/kg)	1.40E+03							
	Qual								
Fluorene	Result (ug/kg)	2.90E+02	2.32E+06	3.37E+07	N		0.0001		0.00001
	RL (ug/kg)	1.40E+03							
	Qual	J							
Hexachloro-benzene	Result (ug/kg)	ND	3.33E+03	1.60E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Hexachloro-butadiene	Result (ug/kg)	ND	6.16E+04	3.29E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Hexachlorocyclo-pentadiene	Result (ug/kg)	ND	3.70E+05	5.49E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Hexachloro-ethane	Result (ug/kg)	ND	4.31E+04	6.41E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Indeno(1,2,3-cd)pyrene	Result (ug/kg)	5.10E+03	1.53E+03	3.23E+04	C	3.3E-05		1.6E-06	
	RL (ug/kg)	1.40E+03							
	Qual								
Isophorone	Result (ug/kg)	ND	5.61E+06	2.70E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
2-Methyl-naphthalene [b]	Result (ug/kg)	4.00E+04	2.40E+05	3.00E+06	N		0.17		0.01
	RL (ug/kg)	3.50E+02							
	Qual	J							
2-Methylphenol (o-cresol) [b]	Result (ug/kg)	ND	3.20E+06	4.10E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
3/4-Methylphenol	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Naphthalene	Result (ug/kg)	2.10E+04	4.97E+04	2.41E+05	C	4.2E-06		8.7E-07	
	RL (ug/kg)	3.80E+04							
	Qual	J							
2-Nitroaniline [b]	Result (ug/kg)	ND	6.30E+05	8.00E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
3-Nitroaniline	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Nitroaniline [b]	Result (ug/kg)	ND	2.70E+05	1.10E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Nitrobenzene	Result (ug/kg)	ND	6.04E+04	2.93E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2-Nitrophenol	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
4-Nitrophenol	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
N-Nitroso-di-n-propylamine [b]	Result (ug/kg)	ND	7.80E+02	3.30E+03	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
N-Nitrosodi-phenylamine	Result (ug/kg)	ND	1.09E+06	5.24E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Pentachloro-phenol	Result (ug/kg)	ND	9.85E+03	4.45E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Phenanthrene	Result (ug/kg)	8.10E+03	1.74E+06	2.53E+07	N		0.005		0.0003
	RL (ug/kg)	1.40E+03							
	Qual								
Phenol	Result (ug/kg)	ND	1.85E+07	2.75E+08	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Pyrene	Result (ug/kg)	1.70E+04	1.74E+06	2.53E+07	N		0.01		0.0007
	RL (ug/kg)	1.40E+03							
	Qual								
1,2,4-Trichlorobenzene	Result (ug/kg)	ND	8.29E+04	4.23E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4,5-Trichlorophenol	Result (ug/kg)	ND	6.16E+06	9.16E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
2,4,6-Trichlorophenol	Result (ug/kg)	ND	6.16E+04	9.16E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Total Petroleum Hydrocarbons [c]	Result (mg/kg)	1.16E+04	1.00E+03	3.80E+03	NA				
	RL	8.39E+01							
	Qual								
TPH-Diesel Range Organics [c]	Result (mg/kg)	2.60E+01	1.00E+03	3.80E+03	NA				
	RL (mg/kg)	1.20E+01							
	Qual								
TPH-Oil Range Organics [c]	Result (mg/kg)	1.70E+01	1.00E+03	3.80E+03	NA				
	RL (mg/kg)	2.40E+01							
	Qual	J							
TPH-Gasoline Range Organics [c]	Result (mg/kg)	ND	1.00E+03	3.80E+03	--	ND	ND	ND	ND
	RL (mg/kg)	--							
	Qual	--							
Estimated Total Cancer Risk or Total NonCancer Hazard:						**7.9E-04**	**0.50**	**4.0E-05**	**0.08**

Notes:

Cancer Risk estimated by dividing maximum detected concentration by carcinogenic SSL and multiplying by NMED target cancer risk of 1E-5.

Noncancer Hazard estimated by dividing maximum detected concentration by noncarcinogenic SSL and multiplying by NMED target hazard quotient of 1.0.

[a] New Mexico Environment Department (NMED), 2014. Table A-1: NMED Soil Screening Levels, *Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document* , Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, December 2014, Table A-1.

[b] U.S. Environmental Protection Agency (EPA), June, 2015. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, May. RSLc values adjusted to target cancer risk of 1E-5.

Table 2. Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard

[c] New Mexico Environment Department (NMED), 2014. Table 6-2. TPH Screening Guidelines for Potable Groundwater (GW-1), Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, December 2014. Values provided are for unknown oil.

Yellow highlight indicates the concentration exceeds the NMED residential SSL (or exceeds EPA residential SSL for target cancer risk of 1E-5).

J = Result concentration is estimated
mg/kg = milligram per kilogram
ND = Result not detected
NE = Not established
NMED = New Mexico Environment Department
Qual = Qualifier
RL = Reporting limit
SSL = soil screening level
TPH = Total petroleum hydrocarbons
ug/kg = micrograms per kilogram
NA = not available

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Acetone	Result (ug/kg)	7.50E+03	6.63E+07	9.60E+08	N		0.0001		0.000008
	RL (ug/kg)	1.40E+04							
	Qual	J							
Benzene	Result (ug/kg)	3.80E+03	1.78E+04	8.72E+04	C	2.1E-06		4.4E-07	
	RL (ug/kg)	7.20E+03							
	Qual	J							
Bromodichloro-methane	Result (ug/kg)	ND	6.19E+03	3.02E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Bromoform [b]	Result (ug/kg)	ND	1.90E+05	8.60E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Bromomethane	Result (ug/kg)	ND	1.77E+04	9.45E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2-Butanone (MEK)	Result (ug/kg)	6.20E+01	3.74E+07	4.11E+08	N		0.000002		0.0000002
	RL (ug/kg)	1.10E+01							
	Qual	J							
Carbon disulfide	Result (ug/kg)	ND	1.55E+06	8.54E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Carbon tetrachloride	Result (ug/kg)	2.70E+00	1.07E+04	5.25E+04	C	2.5E-09		5.1E-10	
	RL (ug/kg)	5.80E+00							
	Qual	J							
Chlorobenzene	Result (ug/kg)	1.30E+00	3.78E+05	2.16E+06	N		0.000003		0.0000006
	RL (ug/kg)	5.80E+00							
	Qual	J							

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Chloroethane (ethyl chloride)	Result (ug/kg)	ND	1.90E+07	8.95E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Chloroform	Result (ug/kg)	ND	5.90E+03	2.87E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Chloromethane	Result (ug/kg)	ND	4.11E+04	2.01E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Dibromochloro-methane	Result (ug/kg)	ND	1.39E+04	6.74E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,1-Dichloroethane	Result (ug/kg)	ND	7.86E+04	3.83E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,2-Dichloroethane	Result (ug/kg)	1.90E+00	8.32E+03	4.07E+04	C	2.3E-09		4.7E-10	
	RL (ug/kg)	5.20E+00							
	Qual	J							
1,1-Dichloroethene	Result (ug/kg)	1.90E+00	4.40E+05	2.26E+06	N		0.000004		0.0000008
	RL (ug/kg)	5.80E+00							
	Qual	J							
1,2-Dichloroethene (total) (assumed cis-1,2-DCE) [b]	Result (ug/kg)	1.30E+00	1.56E+05	2.60E+06	N		0.000008		0.0000005
	RL (ug/kg)	5.80E+00							
	Qual	J							
1,2-Dichloropropane	Result (ug/kg)	1.30E+01	1.78E+04	8.68E+04	C	7.3E-09		1.5E-09	
	RL (ug/kg)	5.40E+00							
	Qual								

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
cis-1,3-Dichloropropene	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
trans-1,3-Dichloropropene	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Ethylbenzene	Result (ug/kg)	5.40E+04	7.51E+04	3.68E+05	C	7.2E-06		1.5E-06	
	RL (ug/kg)	7.20E+03							
	Qual								
2-Hexanone [b]	Result (ug/kg)	ND	2.00E+05	1.30E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Methyl-2-pentanone (MIBK)	Result (ug/kg)	3.30E+00	5.81E+06	8.16E+07	N		0.000001		0.00000004
	RL (ug/kg)	1.10E+01							
	Qual	J							
Methylene chloride	Result (ug/kg)	9.10E+00	4.09E+05	5.13E+06	N		0.00002		0.000002
	RL (ug/kg)	5.50E+00							
	Qual								
Styrene	Result (ug/kg)	ND	7.26E+06	5.13E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,1,2,2-Tetrachloro-ethane	Result (ug/kg)	ND	7.98E+03	3.94E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Tetrachloro-ethene	Result (ug/kg)	2.90E+00	1.11E+05	6.29E+05	N		0.00003		0.000005
	RL (ug/kg)	5.80E+00							
	Qual	J							

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Toluene	Result (ug/kg)	8.20E+04	5.23E+06	6.13E+07	N		0.02		0.001
	RL (ug/kg)	5.80E+00							
	Qual								
1,1,1-Trichloroethane	Result (ug/kg)	1.80E+00	1.44E+07	7.25E+07	N		0.0000001		0.00000002
	RL (ug/kg)	5.80E+00							
	Qual	J							
1,1,2-Trichloroethane	Result (ug/kg)	ND	2.61E+03	1.24E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Trichloroethene	Result (ug/kg)	2.30E+00	6.77E+03	3.65E+04	N		0.0003		0.00006
	RL (ug/kg)	5.80E+00							
	Qual	J							
Vinyl acetate	Result (ug/kg)	ND	2.56E+06	1.24E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Vinyl chloride	Result (ug/kg)	ND	7.42E+02	2.84E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Xylenes (total)	Result (ug/kg)	2.60E+05	8.71E+05	4.28E+06	N		0.30		0.06
	RL (ug/kg)	5.20E+00							
	Qual								
Acenaphthene	Result (ug/kg)	1.50E+02	3.48E+06	5.05E+07	N		0.00004		0.000003
	RL (ug/kg)	1.40E+03							
	Qual	J							
Acenaphthylene	Result (ug/kg)	7.80E+01	NE	NE	--	NE	NE	NE	NE
	RL (ug/kg)	2.20E+02							
	Qual	J							

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Anthracene	Result (ug/kg)	1.00E+02	1.74E+07	2.53E+08	N		0.000006		0.0000004
	RL (ug/kg)	3.50E+02							
	Qual	J							
Benzo(a)-anthracene (95% UCL Used)	Result (ug/kg)	7.74E+02	1.53E+03	3.23E+04	C	5.1E-06		2.4E-07	
	RL (ug/kg)	1.40E+03							
	Qual								
Benzo(a)pyrene (95% UCL Used)	Result (ug/kg)	1.10E+03	1.53E+02	3.23E+03	C	7.2E-05		3.4E-06	
	RL (ug/kg)	1.40E+03							
	Qual								
Benzo(b)-fluoranthene (95% UCL Used)	Result (ug/kg)	1.60E+03	1.53E+03	3.23E+04	C	1.0E-05		5.0E-07	
	RL (ug/kg)	1.40E+03							
	Qual								
Benzo(g,h,i)-perylene	Result (ug/kg)	5.10E+03	NE	NE	--	NE	NE	NE	NE
	RL (ug/kg)	1.40E+03							
	Qual								
Benzo(k)-fluoranthene	Result (ug/kg)	1.60E+03	1.53E+04	3.23E+05	C	1.0E-06		5.0E-08	
	RL (ug/kg)	1.10E+01							
	Qual								
Benzoic acid [b]	Result (ug/kg)	4.80E+01	2.50E+08	3.30E+09	N		0.0000002		0.00000001
	RL (ug/kg)	1.80E+03							
	Qual	J							
Benzyl alcohol [b]	Result (ug/kg)	ND	6.30E+06	8.20E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
bis(2-Chloroethoxy) methane [b]	Result (ug/kg)	ND	1.90E+05	2.50E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
bis(2-Chloroethyl) ether	Result (ug/kg)	ND	3.11E+03	1.57E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
bis(2-Chloroisopropyl) ether	Result (ug/kg)	ND	9.93E+04	5.19E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
bis(2-Ethylhexyl) phthalate	Result (ug/kg)	1.30E+04	3.80E+05	1.83E+06	C	3.4E-07		7.1E-08	
	RL (ug/kg)	1.40E+03							
	Qual								
4-Bromophenyl phenyl ether	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Butyl benzyl phthalate [b]	Result (ug/kg)	1.10E+02	2.90E+06	1.20E+07	C	3.8E-10		9.2E-11	
	RL (ug/kg)	3.80E+02							
	Qual	J							
Carbazole	Result (ug/kg)	1.50E+03	NE	NE	--	NE	NE	NE	NE
	RL (ug/kg)	1.40E+03							
	Qual								
4-Chloro-3-methylphenol (Cresol, p-chloro-m-) [b]	Result (ug/kg)	ND	6.30E+06	8.20E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Chloroaniline [b]	Result (ug/kg)	ND	2.70E+04	1.10E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2-Chloro-naphthalene	Result (ug/kg)	ND	6.26E+06	1.04E+08	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
2-Chlorophenol	Result (ug/kg)	ND	3.91E+05	6.49E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Chlorophenyl phenyl ether	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Chrysene	Result (ug/kg)	1.40E+04	6.53E+05	3.23E+06	C	2.1E-07		4.3E-08	
	RL (ug/kg)	1.40E+03							
	Qual								
Di-n-butyl phthalate [b]	Result (ug/kg)	1.90E+02	6.30E+06	8.20E+07	N		0.00003		0.000002
	RL (ug/kg)	3.80E+02							
	Qual	J							
Di-n-octyl phthalate [b]	Result (ug/kg)	3.10E+02	6.30E+05	8.20E+06	N		0.0005		0.00004
	RL (ug/kg)	3.70E+02							
	Qual	J							
Dibenz(a,h)-anthracene (95% UCL Used)	Result (ug/kg)	9.61E+01	1.53E+02	3.23E+03	C	6.3E-06		3.0E-07	
	RL (ug/kg)	2.20E+01							
	Qual								
Dibenzofuran [b]	Result (ug/kg)	ND	7.30E+04	1.00E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,2-Dichlorobenzene	Result (ug/kg)	ND	2.15E+06	1.30E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,3-Dichlorobenzene	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
1,4-Dichlorobenzene	Result (ug/kg)	ND	3.28E+04	1.59E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4-Dichlorophenol	Result (ug/kg)	ND	1.85E+05	2.75E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
3,3'-Dichlorobenzidine	Result (ug/kg)	ND	1.18E+04	5.70E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Diethyl phthalate	Result (ug/kg)	4.60E+01	4.93E+07	7.33E+08	N		0.000001		0.00000006
	RL (ug/kg)	3.60E+02							
	Qual	J							
2,4-Dimethylphenol	Result (ug/kg)	ND	1.23E+06	1.83E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Dimethyl phthalate [b]	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4,6-Dinitro-2-methylphenol	Result (ug/kg)	ND	4.93E+03	7.33E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4-Dinitrophenol	Result (ug/kg)	ND	1.30E+05	1.83E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4-Dinitrotoluene	Result (ug/kg)	ND	1.71E+04	8.23E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
2,6-Dinitrotoluene	Result (ug/kg)	ND	3.56E+03	1.72E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Fluoranthene	Result (ug/kg)	1.70E+04	2.32E+06	3.37E+07	N		0.007		0.0005
	RL (ug/kg)	1.40E+03							
	Qual								
Fluorene	Result (ug/kg)	2.90E+02	2.32E+06	3.37E+07	N		0.0001		0.00001
	RL (ug/kg)	1.40E+03							
	Qual	J							
Hexachloro-benzene	Result (ug/kg)	ND	3.33E+03	1.60E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Hexachloro-butadiene	Result (ug/kg)	ND	6.16E+04	3.29E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Hexachlorocyclo-pentadiene	Result (ug/kg)	ND	3.70E+05	5.49E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Hexachloro-ethane	Result (ug/kg)	ND	4.31E+04	6.41E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Indeno(1,2,3-cd)pyrene (95% UCL Used)	Result (ug/kg)	5.41E+02	1.53E+03	3.23E+04	C	3.5E-06		1.7E-07	
	RL (ug/kg)	1.40E+03							
	Qual								
Isophorone	Result (ug/kg)	ND	5.61E+06	2.70E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
2-Methyl-naphthalene [b]	Result (ug/kg)	4.00E+04	2.40E+05	3.00E+06	N		0.17		0.01
	RL (ug/kg)	3.50E+02							
	Qual	J							
2-Methylphenol (o-cresol) [b]	Result (ug/kg)	ND	3.20E+06	4.10E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
3/4-Methylphenol	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Naphthalene	Result (ug/kg)	2.10E+04	4.97E+04	2.41E+05	C	4.2E-06		8.7E-07	
	RL (ug/kg)	3.80E+04							
	Qual	J							
2-Nitroaniline [b]	Result (ug/kg)	ND	6.30E+05	8.00E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
3-Nitroaniline	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Nitroaniline [b]	Result (ug/kg)	ND	2.70E+05	1.10E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Nitrobenzene	Result (ug/kg)	ND	6.04E+04	2.93E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2-Nitrophenol	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
4-Nitrophenol	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
N-Nitroso-di-n-propylamine [b]	Result (ug/kg)	ND	7.80E+02	3.30E+03	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
N-Nitrosodi-phenylamine	Result (ug/kg)	ND	1.09E+06	5.24E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Pentachloro-phenol	Result (ug/kg)	ND	9.85E+03	4.45E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Phenanthrene	Result (ug/kg)	8.10E+03	1.74E+06	2.53E+07	N		0.005		0.0003
	RL (ug/kg)	1.40E+03							
	Qual								
Phenol	Result (ug/kg)	ND	1.85E+07	2.75E+08	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Pyrene	Result (ug/kg)	1.70E+04	1.74E+06	2.53E+07	N		0.01		0.0007
	RL (ug/kg)	1.40E+03							
	Qual								
1,2,4-Trichlorobenzene	Result (ug/kg)	ND	8.29E+04	4.23E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4,5-Trichlorophenol	Result (ug/kg)	ND	6.16E+06	9.16E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
2,4,6-Trichlorophenol	Result (ug/kg)	ND	6.16E+04	9.16E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Total Petroleum Hydrocarbons [c]	Result (mg/kg)	1.16E+04	1.00E+03	3.80E+03	NA				
	RL	8.39E+01							
	Qual								
TPH-Diesel Range Organics [c]	Result (mg/kg)	2.60E+01	1.00E+03	3.80E+03	NA				
	RL (mg/kg)	1.20E+01							
	Qual								
TPH-Oil Range Organics [c]	Result (mg/kg)	1.70E+01	1.00E+03	3.80E+03	NA				
	RL (mg/kg)	2.40E+01							
	Qual	J							
TPH-Gasoline Range Organics [c]	Result (mg/kg)	ND	1.00E+03	3.80E+03	--	ND	ND	ND	ND
	RL (mg/kg)	--							
	Qual	--							
Estimated Total Cancer Risk or Total NonCancer Hazard:						**1.13E-04**	**0.50**	**7.6E-06**	**0.08**

Notes:

95% UCL EPCs, not maximum detected concentrations, used for the following five (5) PAHs: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

Cancer Risk estimated by dividing maximum detected concentration by carcinogenic SSL and multiplying by NMED target cancer risk of 1E-5.

Noncancer Hazard estimated by dividing maximum detected concentration by noncarcinogenic SSL and multiplying by NMED target hazard quotient of 1.0.

[a] New Mexico Environment Department (NMED), 2014. Table A-1: NMED Soil Screening Levels, *Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document*, Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, December 2014, Table A-1.

Table 3. Refined Total Risk and Hazard Calculations for Organics in Soil for SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard

[b] U.S. Environmental Protection Agency (EPA), June, 2015. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, May. RSLc values adjusted to target cancer risk of 1E-5.

[c] New Mexico Environment Department (NMED), 2014. Table 6-2. TPH Screening Guidelines for Potable Groundwater (GW-1), Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, December 2014. Values provided are for unknown oil.

Yellow highlight indicates the concentration exceeds the NMED residential SSL (or exceeds EPA residential SSL for target cancer risk of 1E-5).

J = Result concentration is estimated
mg/kg = milligram per kilogram
ND = Result not detected
NE = Not established
NMED = New Mexico Environment Department
Qual = Qualifier
RL = Reporting limit
SSL = soil screening level
TPH = Total petroleum hydrocarbons
ug/kg = micrograms per kilogram
NA = not available

Table 4. Total Risk and Hazard Calculations for Metals in Soil, SWMU 127
Cannon Air Force Base

Analyte	Maximum Detected Concentration	NMED SSL Concentrations [a]		Carcinogenic or Non-Carcinogenic Endpoint?	Background UTLs [b]	Related to Back-ground?	Without Background Metals				With Background Metals			
							Residential		Industrial		Residential		Industrial	
		Residential SSLs	Industrial SSLs				Estimated Cancer Risk	Estimated Non-Cancer Hazard	Estimated Cancer Risk	Estimated Non-Cancer Hazard	Estimated Cancer Risk	Estimated Non-Cancer Hazard	Estimated Cancer Risk	Estimated Non-Cancer Hazard
Aluminum	14700	78000	1290000	N	8950-12214	No		0.19		0.01		0.19		0.01
Antimony	ND (35.3)	31.3	519	--	3.15-16	--	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	3	4.25	21.5	C	3.6-4.3	**Yes**					7.1E-06		1.4E-06	
Barium	1540	15600	255000	N	670-890	No		0.10		0.006		0.10		0.006
Beryllium	0.76	156	2580	N	0.78-0.73	**Yes**						0.005		0.0003
Cadmium	0.77	70.5	1100	N	0.435-1.3	**Yes**						0.01		0.0007
Calcium	1800000	NE	NE	NE	44800-237498	No								
Chromium	21.4	117000	1950000	N	10.5-13.3	No		0.0002		0.00001		0.0002		0.00001
Cobalt [c]	8	23	350	N	6.6-4.7	No		0.35		0.02		0.35		0.02
Copper	45.8	3130	51900	N	18.3-8.3	No		0.01		0.001		0.01		0.001
Iron	11500	54800	908000	N	10100-13148	**Yes**						0.21		0.01
Lead	128	400	800	IEUBK	12-8.7	No	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	15000	NE	NE	NE	1930-19300	**Yes**								
Manganese	340	10500	160000	N	307-333	No		0.03		0.002		0.03		0.002
Mercury	ND (0.11)	23.5	389	--	0.056-0.019	--	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	13.6	1560	25700	N	11-14.9	**Yes**						0.009		0.0005
Potassium	3230	NE	NE	NE	2691-2512	No								
Selenium	0.25	391	6490	N	0.26-1.1	**Yes**						0.0006		0.00004
Silver	ND (5.9)	391	6490	--	0.4-2.65	--	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	521	NE	NE	NE	102-1227	**Yes**								
Thallium	0.38	0.782	11.3	N	0.6-2.65	**Yes**						0.49		0.03
Vanadium	23.2	394	6530	N	23.3-32.8	**Yes**						0.06		0.004
Zinc	41.1	23500	389000	N	32.2-30.6	No		0.002		0.0001		0.002		0.0001
Estimated Total Cancer Risk or Total NonCancer Hazard:							**0.0E+00**	**0.68**	**0.0E+00**	**0.04**	**7.1E-06**	**1.5**	**1.4E-06**	**0.09**

Notes:
All results in mg/kg.

Table 4. Total Risk and Hazard Calculations for Metals in Soil, SWMU 127
Cannon Air Force Base

Cancer Risk estimated by dividing maximum detected concentration by carcinogenic SSL and multiplying by NMED target cancer risk of 1E-5.
Noncancer Hazard estimated by dividing maximum detected concentration by noncarcinogenic SSL and multiplying by NMED target hazard quotient of 1.0.

[a] New Mexico Environment Department (NMED), 2014. Table A-1: NMED Soil Screening Levels, *Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document* , Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, December 2014, Table A-1.

[b] Background Upper Tolerance Limits (UTLs) for surface and subsurface soil, Cannon Air Force Base, Cannon AFB Background Study (Cannon AFB, 1997).

[c] SSLs from U.S. Environmental Protection Agency (EPA), June, 2015. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, May. RSLc values adjusted to target cancer risk of 1E-5.

mg/kg	= milligram per kilogram
ND	= Result not detected (value presented is reporting limit)
NE	= Not established
NMED	= New Mexico Environment Department
C	= Carcinogenic SSL health endpoint
N	= Noncarcinogenic SSL health endpoint
SSL	= soil screening level
NA	= not available
IEUBK	= Integrated Exposure Uptake Biokinetic Lead Model

Table 5. Detected Soil Vapor Results, SWMU 127, Cannon Air Force Base

FieldSampleID	ParameterName	Value	Reporting-Units	Flag-Code	Validation-Code	Reportable-Result
127-SV09-05	**1,2-Dichloropropane**	**1.1**	**ug/m3**	**j**	**J**	**Y**
127-SV07-10	1,2-Dichloropropane	1	ug/m3	j	J	Y
127-SV08-10	1,2-Dichloropropane	1	ug/m3	j	J	Y
127-SV11-10	1,2-Dichloropropane	1	ug/m3	j	J	Y
127-SV08-05	1,2-Dichloropropane	0.911	ug/m3	j	J	Y
127-SV10-10	1,2-Dichloropropane	0.91	ug/m3	j	J	Y
127-SV09-10	1,2-Dichloropropane	0.89	ug/m3	j	J	Y
127-SV11-05	1,2-Dichloropropane	0.85	ug/m3	j	J	Y
127-SV08-05	1,2-Dichloropropane	0.77	ug/m3	j	J	Y
127-SV07-05	1,2-Dichloropropane	0.71	ug/m3	j	J	Y
127-SV03-10	**2-Butanone**	**73**	**ug/m3**		**z**	**Y**
127-SV03-05	2-Butanone	52	ug/m3		z	Y
127-SV04-05	2-Butanone	43	ug/m3		z	Y
127-SV05-05	2-Butanone	41	ug/m3		z	Y
127-SV07-05	2-Butanone	40	ug/m3		z	Y
127-SV02-10	2-Butanone	37	ug/m3		z	Y
127-SV08-05	2-Butanone	33.6	ug/m3		z	Y
127-SV01-05	2-Butanone	33	ug/m3		z	Y
127-SV10-05-FD	2-Butanone	33	ug/m3		z	Y
127-SV08-05	2-Butanone	31	ug/m3		z	Y
127-SV10-05	2-Butanone	31	ug/m3		z	Y
127-SV11-05	2-Butanone	31	ug/m3		z	Y
127-SV06-10	2-Butanone	26	ug/m3		z	Y
127-SV01-10	2-Butanone	25	ug/m3		z	Y
127-SV04-10	2-Butanone	21.4	ug/m3	j	J	Y
127-SV04-10	2-Butanone	21	ug/m3	j	J	Y
127-SV05-10	2-Butanone	20	ug/m3	j	J	Y
127-SV07-10	2-Butanone	20	ug/m3	j	J	Y
127-SV09-05	2-Butanone	20	ug/m3	j	J	Y
127-SV02-05	2-Butanone	19	ug/m3	j	J	Y
127-SV09-10	2-Butanone	19	ug/m3	j	J	Y
127-SV08-10	2-Butanone	18	ug/m3	j	J	Y
127-SV06-05	2-Butanone	16	ug/m3	j	J	Y
127-SV11-10	2-Butanone	16	ug/m3	j	J	Y
127-SV10-10	2-Butanone	12	ug/m3	j	J	Y
127-SV01-05	**2-Hexanone**	**4.8**	**ug/m3**		**z**	**Y**
127-SV03-10	2-Hexanone	4.6	ug/m3		z	Y
127-SV05-05	2-Hexanone	3.3	ug/m3		z	Y
127-SV08-05	2-Hexanone	2.95	ug/m3		z	Y
127-SV03-05	2-Hexanone	2.9	ug/m3		z	Y
127-SV07-05	2-Hexanone	2.8	ug/m3		z	Y
127-SV08-05	2-Hexanone	2.8	ug/m3		z	Y

Table 5. Detected Soil Vapor Results, SWMU 127, Cannon Air Force Base

FieldSampleID	ParameterName	Value	Reporting-Units	Flag-Code	Validation-Code	Reportable-Result
127-SV06-10	2-Hexanone	2.4	ug/m3		z	Y
127-SV11-05	2-Hexanone	2.4	ug/m3		z	Y
127-SV08-10	2-Hexanone	2.2	ug/m3		z	Y
127-SV05-10	2-Hexanone	1.8	ug/m3	j	J	Y
127-SV04-05	2-Hexanone	1.7	ug/m3	j	J	Y
127-SV02-10	2-Hexanone	1.5	ug/m3	j	J	Y
127-SV10-10	2-Hexanone	1.3	ug/m3	j	J	Y
127-SV04-10	2-Hexanone	1.18	ug/m3	j	J	Y
127-SV02-05	2-Hexanone	0.92	ug/m3	j	J	Y
127-SV01-10	2-Hexanone	0.9	ug/m3	j	J	Y
127-SV01-05	**4-Methyl-2-pentanone**	**6.1**	**ug/m3**		**z**	**Y**
127-SV03-10	4-Methyl-2-pentanone	3.4	ug/m3		z	Y
127-SV03-05	4-Methyl-2-pentanone	2	ug/m3	j	J	Y
127-SV05-05	4-Methyl-2-pentanone	1.9	ug/m3	j	J	Y
127-SV10-05-FD	4-Methyl-2-pentanone	1.8	ug/m3	j	J	Y
127-SV08-05	4-Methyl-2-pentanone	1.78	ug/m3	j	J	Y
127-SV08-05	4-Methyl-2-pentanone	1.7	ug/m3	j	J	Y
127-SV07-05	4-Methyl-2-pentanone	1.6	ug/m3	j	J	Y
127-SV06-10	4-Methyl-2-pentanone	1.5	ug/m3	j	J	Y
127-SV07-10	4-Methyl-2-pentanone	1.5	ug/m3	j	J	Y
127-SV08-10	4-Methyl-2-pentanone	1.5	ug/m3	j	J	Y
127-SV10-05	4-Methyl-2-pentanone	1.5	ug/m3	j	J	Y
127-SV11-05	4-Methyl-2-pentanone	1.5	ug/m3	j	J	Y
127-SV09-05	4-Methyl-2-pentanone	1.4	ug/m3	j	J	Y
127-SV04-05	4-Methyl-2-pentanone	1.3	ug/m3	j	J	Y
127-SV05-10	4-Methyl-2-pentanone	1.3	ug/m3	j	J	Y
127-SV11-10	4-Methyl-2-pentanone	1.3	ug/m3	j	J	Y
127-SV02-10	4-Methyl-2-pentanone	1.2	ug/m3	j	J	Y
127-SV09-10	4-Methyl-2-pentanone	1.1	ug/m3	j	J	Y
127-SV01-10	4-Methyl-2-pentanone	0.89	ug/m3	j	J	Y
127-SV10-10	4-Methyl-2-pentanone	0.8	ug/m3	j	J	Y
127-SV02-05	4-Methyl-2-pentanone	0.77	ug/m3	j	J	Y
127-SV06-05	4-Methyl-2-pentanone	0.77	ug/m3	j	J	Y
127-SV01-05	**Acetone**	**420**	**ug/m3**	**b**	**z**	**Y**
127-SV03-10	Acetone	360	ug/m3	b	z	Y
127-SV03-05	Acetone	260	ug/m3	b	z	Y
127-SV08-05	Acetone	246	ug/m3		z	Y
127-SV08-05	Acetone	240	ug/m3		z	Y
127-SV04-05	Acetone	200	ug/m3	b	z	Y
127-SV07-10	Acetone	200	ug/m3	b	z	Y
127-SV10-05-FD	Acetone	200	ug/m3		z	Y
127-SV02-10	Acetone	190	ug/m3	b	z	Y

Table 5. Detected Soil Vapor Results, SWMU 127, Cannon Air Force Base

FieldSampleID	ParameterName	Value	Reporting-Units	Flag-Code	Validation-Code	Reportable-Result
127-SV08-10	Acetone	190	ug/m3		z	Y
127-SV05-05	Acetone	180	ug/m3	b	z	Y
127-SV10-05	Acetone	180	ug/m3		z	Y
127-SV07-05	Acetone	160	ug/m3	b	z	Y
127-SV11-05	Acetone	160	ug/m3		z	Y
127-SV09-05	Acetone	140	ug/m3		z	Y
127-SV05-10	Acetone	130	ug/m3	b	z	Y
127-SV09-10	Acetone	130	ug/m3		z	Y
127-SV11-10	Acetone	130	ug/m3		z	Y
127-SV06-10	Acetone	110	ug/m3	b	z	Y
127-SV10-10	Acetone	110	ug/m3		z	Y
127-SV04-10	Acetone	107	ug/m3	b	z	Y
127-SV01-10	Acetone	100	ug/m3	b	z	Y
127-SV04-10	Acetone	100	ug/m3	b	z	Y
127-SV02-05	Acetone	86	ug/m3	b	z	Y
127-SV06-05	Acetone	64	ug/m3	b	z	Y
127-SV03-10	**Benzene**	**6.7**	**ug/m3**		**z**	**Y**
127-SV10-05	Benzene	3.9	ug/m3		J	Y
127-SV07-05	Benzene	3.3	ug/m3		z	Y
127-SV06-05	Benzene	2.8	ug/m3		z	Y
127-SV11-10	Benzene	2.4	ug/m3		z	Y
127-SV04-05	Benzene	2	ug/m3	j	J	Y
127-SV07-10	Benzene	2	ug/m3	j	J	Y
127-SV08-05	Benzene	1.9	ug/m3	j	J	Y
127-SV08-05	Benzene	1.87	ug/m3	j	J	Y
127-SV01-05	Benzene	1.7	ug/m3	j	J	Y
127-SV01-10	Benzene	1.7	ug/m3	j	J	Y
127-SV09-05	Benzene	1.7	ug/m3	j	J	Y
127-SV11-05	Benzene	1.7	ug/m3	j	J	Y
127-SV08-10	Benzene	1.6	ug/m3	j	J	Y
127-SV09-10	Benzene	1.4	ug/m3	j	J	Y
127-SV10-05-FD	Benzene	1.4	ug/m3	j	J	Y
127-SV02-10	Benzene	1.3	ug/m3	j	J	Y
127-SV03-05	Benzene	1.1	ug/m3	j	J	Y
127-SV06-10	Benzene	1.1	ug/m3	j	J	Y
127-SV10-10	Benzene	1.1	ug/m3	j	J	Y
127-SV05-10	Benzene	0.96	ug/m3	j	J	Y
127-SV05-05	Benzene	0.95	ug/m3	j	J	Y
127-SV02-05	Benzene	0.94	ug/m3	j	J	Y
127-SV10-05-FD	**Bromoform**	**0.74**	**ug/m3**	**j**	**J**	**Y**
127-SV07-10	**C5 - C8 Aliphatics**	**1400**	**ug/m3**		**z**	**Y**
127-SV09-05	C5 - C8 Aliphatics	1400	ug/m3		z	Y

Table 5. Detected Soil Vapor Results, SWMU 127, Cannon Air Force Base

FieldSampleID	ParameterName	Value	Reporting-Units	Flag-Code	Validation-Code	Reportable-Result
127-SV10-05	C5 - C8 Aliphatics	1400	ug/m3		z	Y
127-SV10-05-FD	C5 - C8 Aliphatics	1400	ug/m3		z	Y
127-SV03-10	C5 - C8 Aliphatics	490	ug/m3		z	Y
127-SV08-05	C5 - C8 Aliphatics	477	ug/m3		z	Y
127-SV07-05	C5 - C8 Aliphatics	470	ug/m3		z	Y
127-SV08-05	C5 - C8 Aliphatics	450	ug/m3		z	Y
127-SV11-10	C5 - C8 Aliphatics	440	ug/m3		z	Y
127-SV08-10	C5 - C8 Aliphatics	390	ug/m3		z	Y
127-SV11-05	C5 - C8 Aliphatics	360	ug/m3		z	Y
127-SV05-05	C5 - C8 Aliphatics	270	ug/m3		z	Y
127-SV09-10	C5 - C8 Aliphatics	270	ug/m3		z	Y
127-SV05-10	C5 - C8 Aliphatics	250	ug/m3		z	Y
127-SV10-10	C5 - C8 Aliphatics	230	ug/m3		z	Y
127-SV02-10	C5 - C8 Aliphatics	220	ug/m3		z	Y
127-SV04-10	C5 - C8 Aliphatics	210	ug/m3		z	Y
127-SV06-05	C5 - C8 Aliphatics	210	ug/m3		z	Y
127-SV04-10	C5 - C8 Aliphatics	205	ug/m3		z	Y
127-SV01-10	C5 - C8 Aliphatics	200	ug/m3		z	Y
127-SV01-05	C5 - C8 Aliphatics	190	ug/m3		z	Y
127-SV04-05	C5 - C8 Aliphatics	180	ug/m3		z	Y
127-SV06-10	C5 - C8 Aliphatics	160	ug/m3		z	Y
127-SV03-05	C5 - C8 Aliphatics	150	ug/m3		z	Y
127-SV02-05	C5 - C8 Aliphatics	120	ug/m3		z	Y
127-SV07-10	**C9 - C10 Aromatics**	**230**	**ug/m3**		**z**	**Y**
127-SV10-05	C9 - C10 Aromatics	94	ug/m3		z	Y
127-SV10-05-FD	C9 - C10 Aromatics	90	ug/m3		z	Y
127-SV07-05	C9 - C10 Aromatics	66	ug/m3		z	Y
127-SV08-05	C9 - C10 Aromatics	57.8	ug/m3		z	Y
127-SV08-05	C9 - C10 Aromatics	55	ug/m3		z	Y
127-SV06-05	C9 - C10 Aromatics	38	ug/m3		z	Y
127-SV06-10	C9 - C10 Aromatics	36	ug/m3		z	Y
127-SV01-05	C9 - C10 Aromatics	29	ug/m3		z	Y
127-SV08-10	C9 - C10 Aromatics	24	ug/m3		z	Y
127-SV09-05	C9 - C10 Aromatics	18	ug/m3		z	Y
127-SV10-10	C9 - C10 Aromatics	18	ug/m3		z	Y
127-SV11-05	C9 - C10 Aromatics	16	ug/m3		z	Y
127-SV11-10	C9 - C10 Aromatics	15	ug/m3		z	Y
127-SV09-10	C9 - C10 Aromatics	13	ug/m3		z	Y
127-SV11-10	**C9 - C12 Aliphatics**	**5900**	**ug/m3**		**z**	**Y**
127-SV07-10	C9 - C12 Aliphatics	5300	ug/m3		z	Y
127-SV11-05	C9 - C12 Aliphatics	5100	ug/m3		z	Y
127-SV10-05	C9 - C12 Aliphatics	4300	ug/m3		z	Y

Table 5. Detected Soil Vapor Results, SWMU 127, Cannon Air Force Base

FieldSampleID	ParameterName	Value	Reporting-Units	Flag-Code	Validation-Code	Reportable-Result
127-SV10-05-FD	C9 - C12 Aliphatics	4300	ug/m3		z	Y
127-SV07-05	C9 - C12 Aliphatics	4000	ug/m3		z	Y
127-SV08-05	C9 - C12 Aliphatics	3610	ug/m3		z	Y
127-SV08-05	C9 - C12 Aliphatics	3500	ug/m3		z	Y
127-SV09-05	C9 - C12 Aliphatics	3500	ug/m3		z	Y
127-SV10-10	C9 - C12 Aliphatics	3100	ug/m3		z	Y
127-SV09-10	C9 - C12 Aliphatics	2800	ug/m3		z	Y
127-SV08-10	C9 - C12 Aliphatics	2400	ug/m3		z	Y
127-SV01-05	C9 - C12 Aliphatics	200	ug/m3		z	Y
127-SV06-10	C9 - C12 Aliphatics	91	ug/m3		z	Y
127-SV05-05	C9 - C12 Aliphatics	88	ug/m3		z	Y
127-SV04-10	C9 - C12 Aliphatics	68.2	ug/m3		z	Y
127-SV04-10	C9 - C12 Aliphatics	67	ug/m3		z	Y
127-SV04-05	C9 - C12 Aliphatics	66	ug/m3		z	Y
127-SV02-10	C9 - C12 Aliphatics	65	ug/m3		z	Y
127-SV03-10	C9 - C12 Aliphatics	53	ug/m3		z	Y
127-SV02-05	C9 - C12 Aliphatics	49	ug/m3		z	Y
127-SV01-10	C9 - C12 Aliphatics	43	ug/m3		z	Y
127-SV10-05-FD	**Carbon disulfide**	**76**	**ug/m3**		**J**	**Y**
127-SV04-05	Carbon disulfide	4.2	ug/m3	j	J	Y
127-SV01-05	Carbon disulfide	3.8	ug/m3	j	J	Y
127-SV09-10	Carbon disulfide	3.1	ug/m3	j	J	Y
127-SV03-05	Carbon disulfide	2.8	ug/m3	j	J	Y
127-SV03-10	Carbon disulfide	2.8	ug/m3	j	J	Y
127-SV07-05	Carbon disulfide	2.7	ug/m3	j	J	Y
127-SV10-05	Carbon disulfide	2.1	ug/m3	j	J	Y
127-SV05-05	Carbon disulfide	2	ug/m3	j	J	Y
127-SV09-05	Carbon disulfide	2	ug/m3	j	J	Y
127-SV11-05	Carbon disulfide	1.8	ug/m3	j	J	Y
127-SV08-05	Carbon disulfide	1.62	ug/m3	j	J	Y
127-SV01-10	Carbon disulfide	1.5	ug/m3	j	J	Y
127-SV08-05	Carbon disulfide	1.5	ug/m3	j	J	Y
127-SV08-10	Carbon disulfide	1.5	ug/m3	j	J	Y
127-SV04-10	Carbon disulfide	1.4	ug/m3	j	J	Y
127-SV04-10	Carbon disulfide	1.38	ug/m3	j	J	Y
127-SV07-10	Carbon disulfide	1.3	ug/m3	j	J	Y
127-SV10-10	Carbon disulfide	1.2	ug/m3	j	J	Y
127-SV02-10	Carbon disulfide	1.1	ug/m3	j	J	Y
127-SV06-10	Carbon disulfide	1	ug/m3	j	J	Y
127-SV02-05	Carbon disulfide	0.98	ug/m3	j	J	Y
127-SV11-10	Carbon disulfide	0.85	ug/m3	j	J	Y
127-SV05-10	Carbon disulfide	0.81	ug/m3	j	J	Y

Table 5. Detected Soil Vapor Results, SWMU 127, Cannon Air Force Base

FieldSampleID	ParameterName	Value	Reporting-Units	Flag-Code	Validation-Code	Reportable-Result
127-SV06-05	Carbon disulfide	0.81	ug/m3	j	J	Y
127-SV01-05	**Carbon tetrachloride**	**0.76**	**ug/m3**	**j**	**J**	**Y**
127-SV05-10	Carbon tetrachloride	0.74	ug/m3	j	J	Y
127-SV01-10	Carbon tetrachloride	0.63	ug/m3	j	J	Y
127-SV01-05	**Chloroethane**	**1**	**ug/m3**	**j**	**J**	**Y**
127-SV05-10	**Chloroform**	**3.5**	**ug/m3**		**z**	**Y**
127-SV04-10	Chloroform	2.4	ug/m3	j	J	Y
127-SV04-10	Chloroform	2.3	ug/m3	j	J	Y
127-SV06-10	Chloroform	1.6	ug/m3	j	J	Y
127-SV02-10	Chloroform	1.3	ug/m3	j	J	Y
127-SV03-10	Chloroform	1.1	ug/m3	j	J	Y
127-SV01-05	Chloroform	0.78	ug/m3	j	J	Y
127-SV08-10	Chloroform	0.71	ug/m3	j	J	Y
127-SV01-05	**Chloromethane**	**1.6**	**ug/m3**	**j**	**J**	**Y**
127-SV11-10	Chloromethane	0.87	ug/m3	j	J	Y
127-SV08-05	Chloromethane	0.781	ug/m3	j	J	Y
127-SV07-10	Chloromethane	0.78	ug/m3	j	J	Y
127-SV07-05	Chloromethane	0.75	ug/m3	j	J	Y
127-SV08-10	Chloromethane	0.74	ug/m3	j	J	Y
127-SV08-05	Chloromethane	0.65	ug/m3	j	J	Y
127-SV08-10	**cis-1,2-Dichloroethene**	**3.8**	**ug/m3**		**z**	**Y**
127-SV10-05	**Ethylbenzene**	**6.7**	**ug/m3**		**z**	**Y**
127-SV07-10	Ethylbenzene	6.6	ug/m3		z	Y
127-SV10-05-FD	Ethylbenzene	6.6	ug/m3		z	Y
127-SV08-10	Ethylbenzene	4.5	ug/m3		z	Y
127-SV08-05	Ethylbenzene	4.4	ug/m3		z	Y
127-SV09-05	Ethylbenzene	4.4	ug/m3		z	Y
127-SV08-05	Ethylbenzene	4.39	ug/m3		z	Y
127-SV07-05	Ethylbenzene	3.9	ug/m3		z	Y
127-SV11-10	Ethylbenzene	3.9	ug/m3		z	Y
127-SV10-10	Ethylbenzene	3.7	ug/m3		z	Y
127-SV11-05	Ethylbenzene	3.5	ug/m3		z	Y
127-SV09-10	Ethylbenzene	3.4	ug/m3		z	Y
127-SV03-10	Ethylbenzene	0.73	ug/m3	j	J	Y
127-SV01-10	Ethylbenzene	0.65	ug/m3	j	J	Y
127-SV10-05	**m,p-Xylene**	**25**	**ug/m3**		**z**	**Y**
127-SV10-05-FD	m,p-Xylene	25	ug/m3		z	Y
127-SV07-10	m,p-Xylene	22	ug/m3		z	Y
127-SV08-05	m,p-Xylene	14.6	ug/m3		z	Y
127-SV08-05	m,p-Xylene	14	ug/m3		z	Y
127-SV08-10	m,p-Xylene	13	ug/m3		z	Y
127-SV09-05	m,p-Xylene	13	ug/m3		z	Y

Table 5. Detected Soil Vapor Results, SWMU 127, Cannon Air Force Base

FieldSampleID	ParameterName	Value	Reporting-Units	Flag-Code	Validation-Code	Reportable-Result
127-SV07-05	m,p-Xylene	12	ug/m3		z	Y
127-SV10-10	m,p-Xylene	12	ug/m3		z	Y
127-SV11-05	m,p-Xylene	11	ug/m3		z	Y
127-SV11-10	m,p-Xylene	11	ug/m3		z	Y
127-SV09-10	m,p-Xylene	9.8	ug/m3		z	Y
127-SV01-10	m,p-Xylene	1.7	ug/m3	j	J	Y
127-SV03-10	m,p-Xylene	1.4	ug/m3	j	J	Y
127-SV06-05	**Methylene chloride**	**5.1**	**ug/m3**		**z**	**Y**
127-SV06-10	Methylene chloride	4.4	ug/m3		z	Y
127-SV01-10	Methylene chloride	3.6	ug/m3		z	Y
127-SV05-10	Methylene chloride	2.9	ug/m3		z	Y
127-SV09-10	Methylene chloride	2.9	ug/m3		z	Y
127-SV05-05	Methylene chloride	2.3	ug/m3		z	Y
127-SV04-10	Methylene chloride	1.37	ug/m3	j	J	Y
127-SV04-10	Methylene chloride	1.3	ug/m3	j	J	Y
127-SV04-05	Methylene chloride	1.2	ug/m3	j	J	Y
127-SV03-10	Methylene chloride	0.82	ug/m3	j	J	Y
127-SV01-05	Methylene chloride	0.75	ug/m3	j	J	Y
127-SV07-05	Methylene chloride	0.69	ug/m3	j	J	Y
127-SV07-10	**o-Xylene**	**11**	**ug/m3**		**z**	**Y**
127-SV10-05	o-Xylene	10	ug/m3		z	Y
127-SV10-05-FD	o-Xylene	10	ug/m3		z	Y
127-SV08-05	o-Xylene	4.97	ug/m3		z	Y
127-SV07-05	o-Xylene	4.8	ug/m3		z	Y
127-SV08-05	o-Xylene	4.8	ug/m3		z	Y
127-SV08-10	o-Xylene	4.5	ug/m3		z	Y
127-SV09-05	o-Xylene	4.1	ug/m3		z	Y
127-SV10-10	o-Xylene	3.9	ug/m3		z	Y
127-SV11-05	o-Xylene	3.6	ug/m3		z	Y
127-SV11-10	o-Xylene	3.6	ug/m3		z	Y
127-SV09-10	o-Xylene	3.2	ug/m3		z	Y
127-SV01-10	o-Xylene	0.89	ug/m3	j	J	Y
127-SV10-05	**Styrene**	**3.4**	**ug/m3**		**J**	**Y**
127-SV11-10	Styrene	2.7	ug/m3		z	Y
127-SV07-10	Styrene	2.4	ug/m3		z	Y
127-SV11-05	Styrene	2.4	ug/m3		z	Y
127-SV08-05	Styrene	2.36	ug/m3		z	Y
127-SV08-05	Styrene	2.3	ug/m3		z	Y
127-SV08-10	Styrene	2.2	ug/m3		z	Y
127-SV09-05	Styrene	2.2	ug/m3		z	Y
127-SV10-05-FD	Styrene	2.2	ug/m3	j	J	Y
127-SV07-05	Styrene	2.1	ug/m3		z	Y

Table 5. Detected Soil Vapor Results, SWMU 127, Cannon Air Force Base

FieldSampleID	ParameterName	Value	Reporting-Units	Flag-Code	Validation-Code	Reportable-Result
127-SV10-10	Styrene	2.1	ug/m3		z	Y
127-SV09-10	Styrene	1.9	ug/m3	j	J	Y
127-SV01-05	Styrene	0.8	ug/m3	j	J	Y
127-SV05-10	**Tetrachloroethene**	**34**	**ug/m3**		**z**	**Y**
127-SV05-05	Tetrachloroethene	29	ug/m3		z	Y
127-SV11-05	Tetrachloroethene	28	ug/m3		z	Y
127-SV04-10	Tetrachloroethene	24.6	ug/m3		z	Y
127-SV04-10	Tetrachloroethene	24	ug/m3		z	Y
127-SV06-10	Tetrachloroethene	19	ug/m3		z	Y
127-SV10-10	Tetrachloroethene	16	ug/m3		z	Y
127-SV09-10	Tetrachloroethene	14	ug/m3		z	Y
127-SV02-05	Tetrachloroethene	12	ug/m3		z	Y
127-SV03-10	Tetrachloroethene	9.8	ug/m3		z	Y
127-SV04-05	Tetrachloroethene	9.5	ug/m3		z	Y
127-SV02-10	Tetrachloroethene	8.8	ug/m3		z	Y
127-SV10-05	Tetrachloroethene	7.6	ug/m3		z	Y
127-SV10-05-FD	Tetrachloroethene	7.1	ug/m3		z	Y
127-SV01-10	Tetrachloroethene	6	ug/m3		z	Y
127-SV01-05	Tetrachloroethene	5	ug/m3		z	Y
127-SV08-10	Tetrachloroethene	4.1	ug/m3		z	Y
127-SV09-05	Tetrachloroethene	3.3	ug/m3		z	Y
127-SV03-05	Tetrachloroethene	1.9	ug/m3	j	J	Y
127-SV07-10	Tetrachloroethene	0.97	ug/m3	j	J	Y
127-SV07-05	Tetrachloroethene	0.96	ug/m3	j	J	Y
127-SV08-05	Tetrachloroethene	0.781	ug/m3	j	J	Y
127-SV08-05	Tetrachloroethene	0.74	ug/m3	j	J	Y
127-SV07-05	**Toluene**	**38**	**ug/m3**		**z**	**Y**
127-SV08-10	Toluene	34	ug/m3		z	Y
127-SV09-05	Toluene	34	ug/m3		z	Y
127-SV11-10	Toluene	34	ug/m3		z	Y
127-SV07-10	Toluene	33	ug/m3		z	Y
127-SV08-05	Toluene	31.5	ug/m3		z	Y
127-SV08-05	Toluene	31	ug/m3		z	Y
127-SV09-10	Toluene	30	ug/m3		z	Y
127-SV10-10	Toluene	29	ug/m3		z	Y
127-SV11-05	Toluene	28	ug/m3		z	Y
127-SV10-05	Toluene	26	ug/m3		z	Y
127-SV10-05-FD	Toluene	26	ug/m3		z	Y
127-SV01-10	Toluene	6.9	ug/m3		z	Y
127-SV03-10	Toluene	6.3	ug/m3		z	Y
127-SV06-05	Toluene	2.9	ug/m3		z	Y
127-SV06-10	Toluene	2.2	ug/m3		z	Y

Table 5. Detected Soil Vapor Results, SWMU 127, Cannon Air Force Base

FieldSampleID	ParameterName	Value	Reporting-Units	Flag-Code	Validation-Code	Reportable-Result
127-SV04-05	Toluene	1.8	ug/m3	j	J	Y
127-SV02-10	Toluene	1.7	ug/m3	j	J	Y
127-SV01-05	Toluene	1.4	ug/m3	j	J	Y
127-SV02-05	Toluene	1.3	ug/m3	j	J	Y
127-SV03-05	Toluene	1.2	ug/m3	j	J	Y
127-SV05-05	Toluene	1	ug/m3	j	J	Y
127-SV10-05	**TPH as Gasoline**	**8.4**	**mg/m3**	**j**	**J**	**Y**
127-SV11-10	TPH as Gasoline	8.2	mg/m3	j	J	Y
127-SV07-10	TPH as Gasoline	7.7	mg/m3	j	J	Y
127-SV10-05-FD	TPH as Gasoline	7.5	mg/m3	j	J	Y
127-SV11-05	TPH as Gasoline	6.7	mg/m3	j	J	Y
127-SV10-10	TPH as Gasoline	5.6	mg/m3	j	J	Y
127-SV07-05	TPH as Gasoline	5.5	mg/m3	j	J	Y
127-SV09-05	TPH as Gasoline	5	mg/m3	j	J	Y
127-SV08-05	TPH as Gasoline	4.6	mg/m3	j	J	Y
127-SV01-05	TPH as Gasoline	4.1	mg/m3	j	J	Y
127-SV08-10	TPH as Gasoline	2.7	mg/m3	j	J	Y
127-SV09-10	TPH as Gasoline	2.7	mg/m3	j	J	Y
127-SV03-05	TPH as Gasoline	2.6	mg/m3	j	J	Y
127-SV05-10	**Trichloroethene**	**920**	**ug/m3**	**d**	**z**	**Y**
127-SV04-10	Trichloroethene	537	ug/m3		z	Y
127-SV04-10	Trichloroethene	520	ug/m3		z	Y
127-SV06-10	Trichloroethene	450	ug/m3		z	Y
127-SV10-10	Trichloroethene	440	ug/m3		z	Y
127-SV09-10	Trichloroethene	390	ug/m3		z	Y
127-SV03-10	Trichloroethene	310	ug/m3		z	Y
127-SV02-10	Trichloroethene	290	ug/m3		z	Y
127-SV05-05	Trichloroethene	280	ug/m3		z	Y
127-SV11-05	Trichloroethene	240	ug/m3		z	Y
127-SV01-10	Trichloroethene	180	ug/m3		z	Y
127-SV02-05	Trichloroethene	160	ug/m3		z	Y
127-SV01-05	Trichloroethene	120	ug/m3		z	Y
127-SV10-05	Trichloroethene	82	ug/m3		z	Y
127-SV10-05-FD	Trichloroethene	81	ug/m3		z	Y
127-SV04-05	Trichloroethene	60	ug/m3		z	Y
127-SV09-05	Trichloroethene	32	ug/m3		z	Y
127-SV03-05	Trichloroethene	26	ug/m3		z	Y
127-SV07-05	Trichloroethene	5.6	ug/m3		z	Y
127-SV08-05	Trichloroethene	4.71	ug/m3		z	Y
127-SV08-05	Trichloroethene	4.4	ug/m3		z	Y
127-SV08-10	Trichloroethene	3.3	ug/m3		z	Y
127-SV11-10	Trichloroethene	1.8	ug/m3	j	J	Y

Table 5. Detected Soil Vapor Results, SWMU 127, Cannon Air Force Base

FieldSampleID	ParameterName	Value	Reporting-Units	Flag-Code	Validation-Code	Reportable-Result
127-SV07-10	Trichloroethene	1.6	ug/m3	j	J	Y
127-SV06-05	Trichloroethene	0.72	ug/m3	j	J	Y
127-SV10-05-FD	**Vinylacetate**	**58**	**ug/m3**		**J**	**Y**
127-SV09-05	Vinylacetate	44	ug/m3		z	Y
127-SV05-05	Vinylacetate	39	ug/m3		z	Y
127-SV03-10	Vinylacetate	33	ug/m3		z	Y
127-SV08-05	Vinylacetate	25.5	ug/m3		z	Y
127-SV06-10	Vinylacetate	25	ug/m3		z	Y
127-SV07-05	Vinylacetate	24	ug/m3		z	Y
127-SV05-10	Vinylacetate	23	ug/m3		z	Y
127-SV08-05	Vinylacetate	22	ug/m3		z	Y
127-SV04-05	Vinylacetate	21	ug/m3	j	J	Y
127-SV09-10	Vinylacetate	21	ug/m3	j	J	Y
127-SV01-05	Vinylacetate	18	ug/m3	j	J	Y
127-SV11-05	Vinylacetate	18	ug/m3	j	J	Y
127-SV04-10	Vinylacetate	15.8	ug/m3	j	J	Y
127-SV01-10	Vinylacetate	15	ug/m3	j	J	Y
127-SV10-05	Vinylacetate	15	ug/m3	j	J	Y
127-SV02-10	Vinylacetate	14	ug/m3	j	J	Y
127-SV03-05	Vinylacetate	14	ug/m3	j	J	Y
127-SV04-10	Vinylacetate	14	ug/m3	j	J	Y
127-SV06-05	Vinylacetate	11	ug/m3	j	J	Y
127-SV11-10	Vinylacetate	10	ug/m3	j	J	Y
127-SV08-10	Vinylacetate	9.4	ug/m3	j	J	Y
127-SV02-05	Vinylacetate	9	ug/m3	j	J	Y
127-SV07-10	Vinylacetate	8.9	ug/m3	j	J	Y
127-SV10-10	Vinylacetate	8.3	ug/m3	j	J	Y

Soil Vapor Results (detects only) ranked from highest to lowest, with maximum bolded.

Table 6. Summary of Estimated Non-Residential Indoor Air Risks and Hazards Using Maximum Detected Concentrations from Soil Vapor Samples Collected from Two Depths, SWMU 127, Cannon Air Force Base

Compound	Results for 5 Foot bgs		Results for 10 Foot bgs		Maximum from 5 and 10 Foot bgs	
	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
1,2-Dichloropropane	3.5E-09	0.00024	2.1E-09	0.00014	3.5E-09	0.00024
Methylethylketone (2-butanone)	NA	0.000010	NA	0.000010	NA	0.000010
Methylisobutylketone (4-methyl-2-pentanone)	NA	0.0000017	NA	0.00000063	NA	0.0000017
Acetone	NA	0.000014	NA	0.0000084	NA	0.000014
Benzene	1.0E-08	0.00013	1.2E-08	0.00015	1.2E-08	0.00015
Bromoform	1.7E-10	NA	4.1E-10	NA	4.1E-10	NA
Carbon disulfide	NA	0.00011	NA	0.0000032	NA	0.00011
Carbon tetrachloride	1.3E-09	0.0000059	7.7E-10	0.0000036	1.3E-09	0.0000059
Chloroethane (ethyl chloride)	NA	0.00000010	NA	0.00000022	NA	0.00000022
Chloroform	5.8E-09	0.0000072	1.7E-08	0.000021	1.7E-08	0.000021
Methyl chloride (chloromethane)	1.1E-09	0.000019	4.4E-10	0.0000076	1.1E-09	0.000019
cis-1,2-Dichloroethylene	NA	NA	NA	NA	NA	NA
Ethylbenzene	5.1E-09	0.0000057	3.2E-09	0.0000036	5.1E-09	0.0000057
o-Xylene	NA	0.00030	NA	0.00018	NA	0.00030
Methylene chloride	1.8E-11	0.0000086	1.1E-11	0.0000051	1.8E-11	0.0000086
Styrene	NA	0.0000030	NA	0.0000015	NA	0.0000030
Tetrachloroethylene	2.0E-09	0.00053	1.4E-09	0.00038	2.0E-09	0.00053
Toluene	NA	0.0000069	NA	0.0000041	NA	0.0000069
2-Hexanone	NA	0.0081	NA	0.017	NA	0.017
Trichloroethylene	3.5E-07	0.12	7.4E-07	0.25	7.4E-07	0.25
Vinyl acetate	NA	0.00027	NA	0.00010	NA	0.00027
Total	**3.8E-07**	**0.13**	**7.8E-07**	**0.27**	**7.9E-07**	**0.27**

Notes:
bgs = below ground surface
Details presented in Appendix B (Vapor Intrusion Models).

Table 7. Cumulative Risks and Hazards Non-Residential Land Use Scenario, All Media
SWMU 127, Cannon Air Force Base

Media/ Chemical Class	Estimated Total Cancer Risk	Estimated Total Non-Cancer Hazard	Notes
Soil Organics	7.6E-06	0.08	Maximum detected concentrations used, except for 5 PAH risk drivers that used 95% UCL EPCs (for 0-10 ft bgs soil)
Soil Metals	0.0E+00	0.04	Maximum detected concentrations used; 10 background-related metals excluded.
Soil Vapor	7.9E-07	0.27	Maximum detected concentrations used, from soil vapor samples collected from 5 or 10 feet bgs.
Total	**8.4E-06**	**0.39**	

Notes: See Section 2.8 for discussion of risk screening uncertainties.

Table 8. Soil Leaching Evaluation - Organics at SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Soil Leaching Screening Concentration [a]	Exceedance?	Exceedance Magnitude
Acetone	Result (ug/kg)	7.50E+03	4.98E+04	No	--
	RL (ug/kg)	1.40E+04			
	Qual	J			
Benzene	Result (ug/kg)	3.80E+03	3.80E+01	Yes	100
	RL (ug/kg)	7.20E+03			
	Qual	J			
Bromodichloro-methane	Result (ug/kg)	ND	6.21E+00	--	--
	RL (ug/kg)	--			
	Qual	--			
Bromoform [b]	Result (ug/kg)	ND	8.7 (21)	--	--
	RL (ug/kg)	--			
	Qual	--			
Bromomethane	Result (ug/kg)	ND	3.43E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
2-Butanone (MEK)	Result (ug/kg)	6.20E+01	2.01E+04	No	--
	RL (ug/kg)	1.10E+01			
	Qual	J			
Carbon disulfide	Result (ug/kg)	ND	4.42E+03	--	--
	RL (ug/kg)	--			
	Qual	--			
Carbon tetrachloride	Result (ug/kg)	2.70E+00	3.33E+01	No	--
	RL (ug/kg)	5.80E+00			
	Qual	J			
Chlorobenzene	Result (ug/kg)	1.30E+00	8.36E+02	No	--
	RL (ug/kg)	5.80E+00			
	Qual	J			
Chloroethane (ethyl chloride) [b]	Result (ug/kg)	ND	5.90E+03	--	--
	RL (ug/kg)	--			
	Qual	--			
Chloroform	Result (ug/kg)	ND	1.09E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
Chloromethane	Result (ug/kg)	ND	9.51E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
Dibromochloro-methane	Result (ug/kg)	ND	7.54E+00	--	--
	RL (ug/kg)	--			
	Qual	--			

Table 8. Soil Leaching Evaluation - Organics at SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Soil Leaching Screening Concentration [a]	Exceedance?	Exceedance Magnitude
1,1-Dichloroethane	Result (ug/kg)	ND	1.36E+02	--	--
	RL (ug/kg)	--			
	Qual	--			
1,2-Dichloroethane	Result (ug/kg)	1.90E+00	8.14E+00	No	--
	RL (ug/kg)	5.20E+00			
	Qual	J			
1,1-Dichloroethene	Result (ug/kg)	1.90E+00	1.95E+03	No	--
	RL (ug/kg)	5.80E+00			
	Qual	J			
1,2-Dichloroethene (total) (assumed cis-1,2-DCE) [b]	Result (ug/kg)	1.30E+00	11 (21)	No	--
	RL (ug/kg)	5.80E+00			
	Qual	J			
1,2-Dichloropropane	Result (ug/kg)	1.30E+01	2.43E+01	No	--
	RL (ug/kg)	5.40E+00			
	Qual				
cis-1,3-Dichloropropene	Result (ug/kg)	ND	NE	--	--
	RL (ug/kg)	--			
	Qual	--			
trans-1,3-Dichloropropene	Result (ug/kg)	ND	NE	--	--
	RL (ug/kg)	--			
	Qual	--			
Ethylbenzene	Result (ug/kg)	5.40E+04	2.62E+02	Yes	206
	RL (ug/kg)	7.20E+03			
	Qual				
2-Hexanone [b]	Result (ug/kg)	ND	8.80E+00	--	--
	RL (ug/kg)	--			
	Qual	--			
4-Methyl-2-pentanone (MIBK)	Result (ug/kg)	3.30E+00	4.80E+03	No	--
	RL (ug/kg)	1.10E+01			
	Qual	J			
Methylene chloride	Result (ug/kg)	9.10E+00	4.71E+01	No	--
	RL (ug/kg)	5.50E+00			
	Qual				
Styrene	Result (ug/kg)	ND	2.06E+04	--	--
	RL (ug/kg)	--			
	Qual	--			
1,1,2,2-Tetrachloro-ethane	Result (ug/kg)	ND	4.80E+00	--	--
	RL (ug/kg)	--			
	Qual	--			

Table 8. Soil Leaching Evaluation - Organics at SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Soil Leaching Screening Concentration [a]	Exceedance?	Exceedance Magnitude
Tetrachloro-ethene	Result (ug/kg)	2.90E+00	3.21E+01	No	--
	RL (ug/kg)	5.80E+00			
	Qual	J			
Toluene	Result (ug/kg)	8.20E+04	1.21E+04	Yes	6.8
	RL (ug/kg)	5.80E+00			
	Qual				
1,1,1-Trichloroethane	Result (ug/kg)	1.80E+00	5.11E+04	No	--
	RL (ug/kg)	5.80E+00			
	Qual	J			
1,1,2-Trichloroethane	Result (ug/kg)	ND	2.23E+00	--	--
	RL (ug/kg)	--			
	Qual	--			
Trichloroethene	Result (ug/kg)	2.30E+00	1.75E+01	No	--
	RL (ug/kg)	5.80E+00			
	Qual	J			
Vinyl acetate	Result (ug/kg)	ND	1.50E+03	--	--
	RL (ug/kg)	--			
	Qual	--			
Vinyl chloride	Result (ug/kg)	ND	1.35E+00	--	--
	RL (ug/kg)	--			
	Qual	--			
Xylenes (total)	Result (ug/kg)	2.60E+05	2.98E+03	Yes	87
	RL (ug/kg)	5.20E+00			
	Qual				
Acenaphthene [b]	Result (ug/kg)	1.50E+02	5.50E+03	No	--
	RL (ug/kg)	1.40E+03			
	Qual	J			
Acenaphthylene	Result (ug/kg)	7.80E+01	NE	--	--
	RL (ug/kg)	2.20E+02			
	Qual	J			
Anthracene	Result (ug/kg)	1.00E+02	8.51E+05	No	--
	RL (ug/kg)	3.50E+02			
	Qual	J			
Benzo(a)-anthracene	Result (ug/kg)	8.00E+03	1.82E+03	Yes	4.4
	RL (ug/kg)	1.40E+03			
	Qual				
Benzo(a)pyrene	Result (ug/kg)	8.60E+03	6.05E+02	Yes	14
	RL (ug/kg)	1.40E+03			
	Qual				

Table 8. Soil Leaching Evaluation - Organics at SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Soil Leaching Screening Concentration [a]	Exceedance?	Exceedance Magnitude
Benzo(b)-fluoranthene	Result (ug/kg)	1.70E+04	6.17E+03	Yes	2.8
	RL (ug/kg)	1.40E+03			
	Qual				
Benzo(g,h,i)-perylene	Result (ug/kg)	5.10E+03	NE	--	--
	RL (ug/kg)	1.40E+03			
	Qual				
Benzo(k)-fluoranthene	Result (ug/kg)	1.60E+03	6.05E+04	No	--
	RL (ug/kg)	1.10E+01			
	Qual				
Benzoic acid [b]	Result (ug/kg)	4.80E+01	1.80E+04	No	--
	RL (ug/kg)	1.80E+03			
	Qual	J			
Benzyl alcohol [b]	Result (ug/kg)	ND	4.80E+02	--	--
	RL (ug/kg)	--			
	Qual	--			
bis(2-Chloroethoxy) methane [b]	Result (ug/kg)	ND	1.30E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
bis(2-Chloroethyl) ether	Result (ug/kg)	ND	6.05E-01	--	--
	RL (ug/kg)	--			
	Qual	--			
bis(2-Chloroisopropyl) ether	Result (ug/kg)	ND	4.73E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
bis(2-Ethylhexyl) phthalate	Result (ug/kg)	1.30E+04	2.00E+05	No	--
	RL (ug/kg)	1.40E+03			
	Qual				
4-Bromophenyl phenyl ether	Result (ug/kg)	ND	NE	--	--
	RL (ug/kg)	--			
	Qual	--			
Butyl benzyl phthalate [b]	Result (ug/kg)	1.10E+02	2.30E+03	No	--
	RL (ug/kg)	3.80E+02			
	Qual	J			
Carbazole	Result (ug/kg)	1.50E+03	NE	--	--
	RL (ug/kg)	1.40E+03			
	Qual				
4-Chloro-3-methylphenol (Cresol, p-chloro-m-) [b]	Result (ug/kg)	ND	1.70E+03	--	--
	RL (ug/kg)	--			
	Qual	--			

Table 8. Soil Leaching Evaluation - Organics at SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Soil Leaching Screening Concentration [a]	Exceedance?	Exceedance Magnitude
4-Chloroaniline [b]	Result (ug/kg)	ND	1.60E+00	--	--
	RL (ug/kg)	--			
	Qual	--			
2-Chloro-naphthalene	Result (ug/kg)	ND	5.70E+04	--	--
	RL (ug/kg)	--			
	Qual	--			
2-Chlorophenol	Result (ug/kg)	ND	1.15E+03	--	--
	RL (ug/kg)	--			
	Qual	--			
4-Chlorophenyl phenyl ether	Result (ug/kg)	ND	NE	--	--
	RL (ug/kg)	--			
	Qual	--			
Chrysene	Result (ug/kg)	1.40E+04	1.86E+05	No	--
	RL (ug/kg)	1.40E+03			
	Qual				
Di-n-butyl phthalate [b]	Result (ug/kg)	1.90E+02	2.30E+03	No	--
	RL (ug/kg)	3.80E+02			
	Qual	J			
Di-n-octyl phthalate [b]	Result (ug/kg)	3.10E+02	5.70E+04	No	--
	RL (ug/kg)	3.70E+02			
	Qual	J			
Dibenz(a,h)-anthracene	Result (ug/kg)	3.10E+02	6.11E+03	No	--
	RL (ug/kg)	2.20E+01			
	Qual				
Dibenzofuran [b]	Result (ug/kg)	ND	1.50E+02	--	--
	RL (ug/kg)	--			
	Qual	--			
1,2-Dichlorobenzene	Result (ug/kg)	ND	4.58E+03	--	--
	RL (ug/kg)	--			
	Qual	--			
1,3-Dichlorobenzene	Result (ug/kg)	ND	NE	--	--
	RL (ug/kg)	--			
	Qual	--			
1,4-Dichlorobenzene	Result (ug/kg)	ND	7.20E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
2,4-Dichlorophenol	Result (ug/kg)	ND	8.25E+02	--	--
	RL (ug/kg)	--			
	Qual	--			

Table 8. Soil Leaching Evaluation - Organics at SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Soil Leaching Screening Concentration [a]	Exceedance?	Exceedance Magnitude
3,3'-Dichlorobenzidine	Result (ug/kg)	ND	1.23E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
Diethyl phthalate	Result (ug/kg)	4.60E+01	9.79E+04	No	--
	RL (ug/kg)	3.60E+02			
	Qual	J			
2,4-Dimethylphenol	Result (ug/kg)	ND	6.45E+03	--	--
	RL (ug/kg)	--			
	Qual	--			
Dimethyl phthalate	Result (ug/kg)	ND	NE	--	--
	RL (ug/kg)	--			
	Qual	--			
4,6-Dinitro-2-methylphenol	Result (ug/kg)	ND	3.94E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
2,4-Dinitrophenol	Result (ug/kg)	ND	6.71E+02	--	--
	RL (ug/kg)	--			
	Qual	--			
2,4-Dinitrotoluene	Result (ug/kg)	ND	4.91E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
2,6-Dinitrotoluene	Result (ug/kg)	ND	1.02E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
Fluoranthene	Result (ug/kg)	1.70E+04	1.34E+06	No	--
	RL (ug/kg)	1.40E+03			
	Qual				
Fluorene	Result (ug/kg)	2.90E+02	8.00E+04	No	--
	RL (ug/kg)	1.40E+03			
	Qual	J			
Hexachloro-benzene	Result (ug/kg)	ND	9.22E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
Hexachloro-butadiene	Result (ug/kg)	ND	8.79E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
Hexachlorocyclo-pentadiene	Result (ug/kg)	ND	1.34E+03	--	--
	RL (ug/kg)	--			
	Qual	--			

Table 8. Soil Leaching Evaluation - Organics at SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Soil Leaching Screening Concentration [a]	Exceedance?	Exceedance Magnitude
Hexachloro-ethane	Result (ug/kg)	ND	6.62E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
Indeno(1,2,3-cd)pyrene	Result (ug/kg)	5.10E+03	2.01E+04	No	--
	RL (ug/kg)	1.40E+03			
	Qual				
Isophorone	Result (ug/kg)	ND	4.22E+03	--	--
	RL (ug/kg)	--			
	Qual	--			
2-Methyl-naphthalene [b]	Result (ug/kg)	4.00E+04	1.90E+02	Yes	211
	RL (ug/kg)	3.50E+02			
	Qual	J			
2-Methylphenol (o-cresol) [b]	Result (ug/kg)	ND	7.50E+02	--	--
	RL (ug/kg)	--			
	Qual	--			
3/4-Methylphenol	Result (ug/kg)	ND	NE	--	--
	RL (ug/kg)	--			
	Qual	--			
Naphthalene	Result (ug/kg)	2.10E+04	8.23E+01	Yes	255
	RL (ug/kg)	3.80E+04			
	Qual	J			
2-Nitroaniline [b]	Result (ug/kg)	ND	8.00E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
3-Nitroaniline	Result (ug/kg)	ND	NE	--	--
	RL (ug/kg)	--			
	Qual	--			
4-Nitroaniline [b]	Result (ug/kg)	ND	1.60E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
Nitrobenzene	Result (ug/kg)	ND	1.44E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
2-Nitrophenol	Result (ug/kg)	ND	NE	--	--
	RL (ug/kg)	--			
	Qual	--			
4-Nitrophenol	Result (ug/kg)	ND	NE	--	--
	RL (ug/kg)	--			
	Qual	--			

Table 8. Soil Leaching Evaluation - Organics at SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Soil Leaching Screening Concentration [a]	Exceedance?	Exceedance Magnitude
N-Nitroso-di-n-propylamine [b]	Result (ug/kg)	ND	8.10E-02	--	--
	RL (ug/kg)	--			
	Qual	--			
N-Nitrosodi-phenylamine	Result (ug/kg)	ND	9.95E+03	--	--
	RL (ug/kg)	--			
	Qual	--			
Pentachloro-phenol	Result (ug/kg)	ND	6.08E+01	--	--
	RL (ug/kg)	--			
	Qual	--			
Phenanthrene	Result (ug/kg)	8.10E+03	8.59E+04	No	--
	RL (ug/kg)	1.40E+03			
	Qual				
Phenol	Result (ug/kg)	ND	5.23E+04	--	--
	RL (ug/kg)	--			
	Qual	--			
Pyrene	Result (ug/kg)	1.70E+04	1.92E+05	No	--
	RL (ug/kg)	1.40E+03			
	Qual				
1,2,4-Trichlorobenzene	Result (ug/kg)	ND	1.76E+02	--	--
	RL (ug/kg)	--			
	Qual	--			
2,4,5-Trichlorophenol	Result (ug/kg)	ND	6.62E+04	--	--
	RL (ug/kg)	--			
	Qual	--			
2,4,6-Trichlorophenol	Result (ug/kg)	ND	6.74E+02	--	--
	RL (ug/kg)	--			
	Qual	--			
Total Petroleum Hydrocarbons [c]	Result (mg/kg)	1.16E+04	NE	--	--
	RL	8.39E+01			
	Qual				
TPH-Diesel Range Organics [c]	Result (mg/kg)	2.60E+01	NE	--	--
	RL (mg/kg)	1.20E+01			
	Qual				
TPH-Oil Range Organics [c]	Result (mg/kg)	1.70E+01	NE	--	--
	RL (mg/kg)	2.40E+01			
	Qual	J			
TPH-Gasoline Range Organics [c]	Result (mg/kg)	ND	NE	--	--
	RL (mg/kg)	--			
	Qual	--			

Table 8. Soil Leaching Evaluation - Organics at SWMU 127
Cannon Air Force Base

Analyte	Result Description	Maximum Result (ug/kg)	NMED Soil Leaching Screening Concentration [a]	Exceedance?	Exceedance Magnitude

Notes:

[a] New Mexico Environment Department (NMED), 2014. Table A-1: NMED Soil Screening Levels, DAF = 20, Risk Assessment Guidance for Site Investigations and Remediation, Volume I, *Tier 1: Soil Screening Guidance Technical Background Document* , Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, December 2014, Table A-1.

[b] U.S. Environmental Protection Agency (EPA), June 2015. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, May. RSLc values adjusted to target cancer risk of 1E-5 (Risk-Based Screening Level presented, as well as MCL-based level, if available).

[c] New Mexico Environment Department (NMED), 2014. Table 6-2. TPH Screening Guidelines for Potable Groundwater (GW-1), Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, December 2014. SSLs based on DAF of 1 used to estimate SSLs for DAF = 20 (in parentheses), if available.

J	= Result concentration is estimated
mg/kg	= milligram per kilogram
ND	= Result not detected
NE	= Not established
NMED	= New Mexico Environment Department
Qual	= Qualifier
RL	= Reporting limit
SSL	= soil screening level
TPH	= Total petroleum hydrocarbons
ug/kg	= micrograms per kilogram
NA	= not available

Table 9. Soil Leaching Evaluation - Metals at SWMU 127
Cannon Air Force Base

Analyte	Maximum Detected Concentration	NMED Soil Leaching Screening Concentration [a]	Exceedance?	Exceedance Magnitude	Background UTLs [b]	Related to Back-ground?	Potential Leaching Concern?
Aluminum	14700	5.97E+05	No	--	8950-12214	No	No
Antimony	ND (35.3)	6.56	--	--	3.15-16	--	No
Arsenic	3	0.299	**Yes**	10	3.6-4.3	Yes	No
Barium	1540	2700	No	--	670-890	No	No
Beryllium	0.76	196	No	--	0.78-0.73	Yes	No
Cadmium	0.77	9.39	No	--	0.435-1.3	Yes	No
Calcium	1800000	NE	--	--	44800-237498	No	No
Chromium	21.4	>1000000	No	--	10.5-13.3	No	No
Cobalt [c]	8	0.27 (5.4)	**Yes**	1.5	6.6-4.7	No	**Yes**
Copper	45.8	556	No	--	18.3-8.3	No	No
Iron	11500	6960	**Yes**	1.7	10100-13148	Yes	No
Lead	128	NE	--	--	12-8.7	No	No
Magnesium	15000	NE	--	--	1930-19300	Yes	No
Manganese	340	2630	No	--	307-333	No	No
Mercury	ND (0.11)	5.13	--	--	0.056-0.019	--	No
Nickel	13.6	485	No	--	11-14.9	Yes	No
Potassium	3230	NE	--	--	2691-2512	No	No
Selenium	0.25	10.2	No	--	0.26-1.1	Yes	No
Silver	ND (5.9)	13.8	--	--	0.4-2.65	--	No
Sodium	521	NE	--	--	102-1227	Yes	No
Thallium	0.38	0.281	**Yes**	1.4	0.6-2.65	Yes	No
Vanadium	23.2	1260	No	--	23.3-32.8	Yes	No
Zinc	41.1	7410	No	--	32.2-30.6	No	No

Notes:
All results in mg/kg.

[a] New Mexico Environment Department (NMED), 2014. Table A-1: NMED Soil Screening Levels, DAF = 20, Risk Assessment Guidance for Site Investigations and Remediation, Volume I, *Tier 1: Soil Screening Guidance Technical Background Document* , Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, December 2014, Table A-1.

[b] Background Upper Tolerance Limits (UTLs) for surface and subsurface soil, Cannon Air Force Base, Cannon AFB Background Study (Cannon AFB, 1997).

[b] U.S. Environmental Protection Agency (EPA), June 2015. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, May. RSLc values adjusted to target cancer risk of 1E-5 (Risk-Based Screening Level presented). DAF = 1 (only SSL available). DAF = 20 estimated (in parentheses).

mg/kg = milligram per kilogram
ND = Result not detected (value presented is reporting limit)
NE = Not established
NMED = New Mexico Environment Department
SSL = soil screening level

Table 10. Comparison of Maximum Detected Concentrations of PAHs in Soil with Site-Specific Background Concentrations, SWMU 127, Cannon AFB

PAH Compounds in Soil [a]	Maximum Detected Concentration (MDC) at SWMU 127 (µg/kg) [b]	SWMU 127 Frequency of Detection [a]	Background (BG) Concentrations (µg/kg) [c]				Related to Background?	Relative Difference Between Background and Site Maximum Concentrations	
			Minimum	Maximum	Mean [d]	FOD [e]		Using Maximum BG	Using Mean BG
2-Methylnaphthalene	4.0E+04	3/106	1.5U	7.1E+01	3.7E+01	3/4	No	--	--
Acenaphthene	1.5E+02	2/127	0.77	5.8E+02	2.3E+02	4/4	**Yes**	3.9	1.5
Acenaphthylene	7.8E+01	5/127	1.1	1.1E+03	4.1E+02	4/4	**Yes**	14	5.3
Anthracene	1.0E+02	7/127	4.3	4.4E+03	1.8E+03	4/4	**Yes**	44	18
Benzo(a)anthracene	8.0E+03	33/127	4.4E+01	4.4E+04	1.7E+04	4/4	**Yes**	5.5	2.1
Benzo(a)pyrene	8.6E+03	35/127	7.4E+01	5.7E+04	2.2E+04	4/4	**Yes**	6.6	2.6
Benzo(b)fluoranthene	1.7E+04	31/127	1.3E+02	9.3E+04	3.6E+04	4/4	**Yes**	5.5	2.1
Benzo(g,h,i)perylene	5.1E+03	29/127	6.2E+01	3.9E+04	1.5E+04	4/4	**Yes**	7.6	2.9
Benzo(k)fluoranthene	1.6E+03	23/127	4.5E+01	2.7E+04	1.0E+04	4/4	**Yes**	17	6.4
Chrysene	1.4E+04	36/127	9.0E+01	6.8E+04	2.6E+04	4/4	**Yes**	4.9	1.9
Dibenzo(ah)anthracene	3.1E+02	16/127	1.1E+01	1.0E+04	3.7E+03	4/4	**Yes**	32	12
Fluoranthene	1.7E+04	32/127	1.3E+02	1.2E+05	4.6E+04	4/4	**Yes**	7.1	2.7
Fluorene	2.9E+02	2/127	0.76U	7.7E+02	6.2E+02	2/4	**Yes**	2.7	2.1
Indeno(1,2,3-cd)pyrene	5.1E+03	31/127	7.5E+01	5.1E+04	2.0E+04	4/4	**Yes**	10	4.0
Naphthalene	2.1E+04	1/127	1.4E+00	1.5E+02	5.8E+01	4/4	No	--	--
Phenanthrene	8.1E+03	31/127	4.3E+01	4.0E+04	1.6E+04	4/4	**Yes**	4.9	1.9
Pyrene	1.7E+04	34/127	1.1E+02	9.9E+04	3.9E+04	4/4	**Yes**	5.8	2.3

[a] PAHs in soil, for the human health risk evaluation (Table 2).

[b] Total soil data base (Table 1).

[c] Site-specific background surface soil samples collected in August 2014 (n = 4).

[d] Mean calculated using detected results.

[e] FOD = frequency of detection.

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Acetone	Result (ug/kg)	7.50E+03	6.63E+07	9.60E+08	N		0.0001		0.000008
	RL (ug/kg)	1.40E+04							
	Qual	J							
Benzene	Result (ug/kg)	3.80E+03	1.78E+04	8.72E+04	C	2.1E-06		4.4E-07	
	RL (ug/kg)	7.20E+03							
	Qual	J							
Bromodichloro-methane	Result (ug/kg)	ND	6.19E+03	3.02E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Bromoform [b]	Result (ug/kg)	ND	1.90E+05	8.60E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Bromomethane	Result (ug/kg)	ND	1.77E+04	9.45E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2-Butanone (MEK)	Result (ug/kg)	6.20E+01	3.74E+07	4.11E+08	N		0.000002		0.0000002
	RL (ug/kg)	1.10E+01							
	Qual	J							
Carbon disulfide	Result (ug/kg)	ND	1.55E+06	8.54E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Carbon tetrachloride	Result (ug/kg)	2.70E+00	1.07E+04	5.25E+04	C	2.5E-09		5.1E-10	
	RL (ug/kg)	5.80E+00							
	Qual	J							
Chlorobenzene	Result (ug/kg)	1.30E+00	3.78E+05	2.16E+06	N		0.000003		0.0000006
	RL (ug/kg)	5.80E+00							
	Qual	J							

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Chloroethane (ethyl chloride)	Result (ug/kg)	ND	1.90E+07	8.95E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Chloroform	Result (ug/kg)	ND	5.90E+03	2.87E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Chloromethane	Result (ug/kg)	ND	4.11E+04	2.01E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Dibromochloro-methane	Result (ug/kg)	ND	1.39E+04	6.74E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,1-Dichloroethane	Result (ug/kg)	ND	7.86E+04	3.83E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,2-Dichloroethane	Result (ug/kg)	1.90E+00	8.32E+03	4.07E+04	C	2.3E-09		4.7E-10	
	RL (ug/kg)	5.20E+00							
	Qual	J							
1,1-Dichloroethene	Result (ug/kg)	1.90E+00	4.40E+05	2.26E+06	N		0.000004		0.0000008
	RL (ug/kg)	5.80E+00							
	Qual	J							
1,2-Dichloroethene (total) (assumed cis-1,2-DCE) [b]	Result (ug/kg)	1.30E+00	1.56E+05	2.60E+06	N		0.000008		0.0000005
	RL (ug/kg)	5.80E+00							
	Qual	J							
1,2-Dichloropropane	Result (ug/kg)	1.30E+01	1.78E+04	8.68E+04	C	7.3E-09		1.5E-09	
	RL (ug/kg)	5.40E+00							
	Qual								

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
cis-1,3-Dichloropropene	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
trans-1,3-Dichloropropene	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Ethylbenzene	Result (ug/kg)	5.40E+04	7.51E+04	3.68E+05	C	7.2E-06		1.5E-06	
	RL (ug/kg)	7.20E+03							
	Qual								
2-Hexanone [b]	Result (ug/kg)	ND	2.00E+05	1.30E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Methyl-2-pentanone (MIBK)	Result (ug/kg)	3.30E+00	5.81E+06	8.16E+07	N		0.000001		0.00000004
	RL (ug/kg)	1.10E+01							
	Qual	J							
Methylene chloride	Result (ug/kg)	9.10E+00	4.09E+05	5.13E+06	N		0.00002		0.000002
	RL (ug/kg)	5.50E+00							
	Qual								
Styrene	Result (ug/kg)	ND	7.26E+06	5.13E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,1,2,2-Tetrachloro-ethane	Result (ug/kg)	ND	7.98E+03	3.94E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Tetrachloro-ethene	Result (ug/kg)	2.90E+00	1.11E+05	6.29E+05	N		0.00003		0.000005
	RL (ug/kg)	5.80E+00							
	Qual	J							

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Toluene	Result (ug/kg)	8.20E+04	5.23E+06	6.13E+07	N		0.02		0.001
	RL (ug/kg)	5.80E+00							
	Qual								
1,1,1-Trichloroethane	Result (ug/kg)	1.80E+00	1.44E+07	7.25E+07	N		0.0000001		0.00000002
	RL (ug/kg)	5.80E+00							
	Qual	J							
1,1,2-Trichloroethane	Result (ug/kg)	ND	2.61E+03	1.24E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Trichloroethene	Result (ug/kg)	2.30E+00	6.77E+03	3.65E+04	N		0.0003		0.00006
	RL (ug/kg)	5.80E+00							
	Qual	J							
Vinyl acetate	Result (ug/kg)	ND	2.56E+06	1.24E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Vinyl chloride	Result (ug/kg)	ND	7.42E+02	2.84E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Xylenes (total)	Result (ug/kg)	2.60E+05	8.71E+05	4.28E+06	N		0.30		0.06
	RL (ug/kg)	5.20E+00							
	Qual								
Benzoic acid [b]	Result (ug/kg)	4.80E+01	2.50E+08	3.30E+09	N		0.0000002		0.00000001
	RL (ug/kg)	1.80E+03							
	Qual	J							
Benzyl alcohol [b]	Result (ug/kg)	ND	6.30E+06	8.20E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
bis(2-Chloroethoxy) methane [b]	Result (ug/kg)	ND	1.90E+05	2.50E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
bis(2-Chloroethyl) ether	Result (ug/kg)	ND	3.11E+03	1.57E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
bis(2-Chloroisopropyl) ether	Result (ug/kg)	ND	9.93E+04	5.19E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
bis(2-Ethylhexyl) phthalate	Result (ug/kg)	1.30E+04	3.80E+05	1.83E+06	C	3.4E-07		7.1E-08	
	RL (ug/kg)	1.40E+03							
	Qual								
4-Bromophenyl phenyl ether	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Butyl benzyl phthalate [b]	Result (ug/kg)	1.10E+02	2.90E+06	1.20E+07	C	3.8E-10		9.2E-11	
	RL (ug/kg)	3.80E+02							
	Qual	J							
Carbazole	Result (ug/kg)	1.50E+03	NE	NE	--	NE	NE	NE	NE
	RL (ug/kg)	1.40E+03							
	Qual								
4-Chloro-3-methylphenol (Cresol, p-chloro-m-) [b]	Result (ug/kg)	ND	6.30E+06	8.20E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Chloroaniline [b]	Result (ug/kg)	ND	2.70E+04	1.10E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
2-Chloro-naphthalene	Result (ug/kg)	ND	6.26E+06	1.04E+08	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2-Chlorophenol	Result (ug/kg)	ND	3.91E+05	6.49E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Chlorophenyl phenyl ether	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Di-n-butyl phthalate [b]	Result (ug/kg)	1.90E+02	6.30E+06	8.20E+07	N		0.00003		0.000002
	RL (ug/kg)	3.80E+02							
	Qual	J							
Di-n-octyl phthalate [b]	Result (ug/kg)	3.10E+02	6.30E+05	8.20E+06	N		0.0005		0.00004
	RL (ug/kg)	3.70E+02							
	Qual	J							
Dibenzofuran [b]	Result (ug/kg)	ND	7.30E+04	1.00E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,2-Dichlorobenzene	Result (ug/kg)	ND	2.15E+06	1.30E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,3-Dichlorobenzene	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,4-Dichlorobenzene	Result (ug/kg)	ND	3.28E+04	1.59E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
2,4-Dichlorophenol	Result (ug/kg)	ND	1.85E+05	2.75E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
3,3'-Dichlorobenzidine	Result (ug/kg)	ND	1.18E+04	5.70E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Diethyl phthalate	Result (ug/kg)	4.60E+01	4.93E+07	7.33E+08	N		0.000001		0.00000006
	RL (ug/kg)	3.60E+02							
	Qual	J							
2,4-Dimethylphenol	Result (ug/kg)	ND	1.23E+06	1.83E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Dimethyl phthalate [b]	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4,6-Dinitro-2-methylphenol	Result (ug/kg)	ND	4.93E+03	7.33E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4-Dinitrophenol	Result (ug/kg)	ND	1.30E+05	1.83E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4-Dinitrotoluene	Result (ug/kg)	ND	1.71E+04	8.23E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,6-Dinitrotoluene	Result (ug/kg)	ND	3.56E+03	1.72E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Hexachloro-benzene	Result (ug/kg)	ND	3.33E+03	1.60E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Hexachloro-butadiene	Result (ug/kg)	ND	6.16E+04	3.29E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Hexachlorocyclo-pentadiene	Result (ug/kg)	ND	3.70E+05	5.49E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Hexachloro-ethane	Result (ug/kg)	ND	4.31E+04	6.41E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Isophorone	Result (ug/kg)	ND	5.61E+06	2.70E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2-Methyl-naphthalene [b]	Result (ug/kg)	4.00E+04	2.40E+05	3.00E+06	N		0.17		0.01
	RL (ug/kg)	3.50E+02							
	Qual	J							
2-Methylphenol (o-cresol) [b]	Result (ug/kg)	ND	3.20E+06	4.10E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
3/4-Methylphenol	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Naphthalene	Result (ug/kg)	2.10E+04	4.97E+04	2.41E+05	C	4.2E-06		8.7E-07	
	RL (ug/kg)	3.80E+04							
	Qual	J							

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
2-Nitroaniline [b]	Result (ug/kg)	ND	6.30E+05	8.00E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
3-Nitroaniline	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Nitroaniline [b]	Result (ug/kg)	ND	2.70E+05	1.10E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Nitrobenzene	Result (ug/kg)	ND	6.04E+04	2.93E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2-Nitrophenol	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
4-Nitrophenol	Result (ug/kg)	ND	NE	NE	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
N-Nitroso-di-n-propylamine [b]	Result (ug/kg)	ND	7.80E+02	3.30E+03	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
N-Nitrosodi-phenylamine	Result (ug/kg)	ND	1.09E+06	5.24E+06	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Pentachloro-phenol	Result (ug/kg)	ND	9.85E+03	4.45E+04	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	**Result Description**	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard
Phenol	Result (ug/kg)	ND	1.85E+07	2.75E+08	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
1,2,4-Trichlorobenzene	Result (ug/kg)	ND	8.29E+04	4.23E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4,5-Trichlorophenol	Result (ug/kg)	ND	6.16E+06	9.16E+07	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
2,4,6-Trichlorophenol	Result (ug/kg)	ND	6.16E+04	9.16E+05	--	ND	ND	ND	ND
	RL (ug/kg)	--							
	Qual	--							
Total Petroleum Hydrocarbons [c]	Result (mg/kg)	1.16E+04	1.00E+03	3.80E+03	NA				
	RL	8.39E+01							
	Qual								
TPH-Diesel Range Organics [c]	Result (mg/kg)	2.60E+01	1.00E+03	3.80E+03	NA				
	RL (mg/kg)	1.20E+01							
	Qual								
TPH-Oil Range Organics [c]	Result (mg/kg)	1.70E+01	1.00E+03	3.80E+03	NA				
	RL (mg/kg)	2.40E+01							
	Qual	J							
TPH-Gasoline Range Organics [c]	Result (mg/kg)	ND	1.00E+03	3.80E+03	--	ND	ND	ND	ND
	RL (mg/kg)	--							
	Qual	--							
Estimated Total Cancer Risk and Total NonCancer Hazard without background PAHs[d] :						**1.39E-05**	**0.48**	**2.8E-06**	**0.08**

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	Result Description	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard

Notes:

Cancer Risk estimated by dividing maximum detected concentration by carcinogenic SSL and multiplying by NMED target cancer risk of 1E-5.

Noncancer Hazard estimated by dividing maximum detected concentration by noncarcinogenic SSL and multiplying by NMED target hazard quotient of 1.0.

[a] New Mexico Environment Department (NMED), 2014. Table A-1: NMED Soil Screening Levels, *Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document* , Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, December 2014, Table A-1.

[b] U.S. Environmental Protection Agency (EPA), June, 2015. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, May. RSLc values adjusted to target cancer risk of 1E-5.

[c] New Mexico Environment Department (NMED), 2014. Table 6-2. TPH Screening Guidelines for Potable Groundwater (GW-1), Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document, Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, December 2014. Values provided are for unknown oil.

[d] Potentially background related PAHs (acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo(g,h,i)perylene, benzo[k]fluoranthene, chrysene, dibenzo[ah]anthracene, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene, phenanthrene, and pyrene; Table 10) removed from cumulative risk and hazard calculations.

J = Result concentration is estimated
mg/kg = milligram per kilogram
ND = Result not detected
NE = Not established
NMED = New Mexico Environment Department
Qual = Qualifier
RL = Reporting limit

Table 11. Refined Total Risk and Hazard Calculations for Organics in Soil without Background PAHs, for Uncertainty Analysis
SWMU 127 Cannon Air Force Base

Analyte	**Result Description**	Maximum Result, Except as Noted (ug/kg)	NMED Residential SSL Concentration [a]	NMED NonResidential SSL Concentration [a]	Carcinogenic or Non-Carcinogenic Endpoint?	Estimated Residential Cancer Risk	Estimated Residential Non-Cancer Hazard	Estimated Non-Residential Cancer Risk	Estimated Non-Residential Non-Cancer Hazard

SSL = soil screening level
TPH = Total petroleum hydrocarbons
ug/kg = micrograms per kilogram
NA = not available

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Acetone			Benzene			Bromodichloromethane			Bromoform [e]			Bromomethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					7.50E+03	1.40E+04	J	3.80E+03	7.20E+03	J	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					6.66E+07			1.54E+04			5.41E+03			6.20E+04			1.65E+04		
NMED Industrial SSL Concentration [d]					8.68E+08			8.47E+04			3.01E+04			2.20E+05			8.65E+04		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	12	UJ	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	ND	12	UJ	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	12	UJ	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	ND	11	UJ	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	12	UJ	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	12	UJ	ND	6.0	U	ND	6.0	U	ND	6.0	U	ND	12	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	ND	12	UJ	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	12	U
	CAN127-1272-0008	8	0313740010SA	9/23/1993	ND	12	UJ	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	12	U
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	10	UJ	ND	5.2	U	ND	5.2	U	ND	5.2	U	ND	10	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1273-0004	4	0312160004SA	9/13/1993	ND	11	UJ	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	11	UJ	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	ND	11	UJ	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-1273-0028	28	0312160006SA	9/13/1993	ND	11	UJ	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1273-0038	38	0312160007SA	9/13/1993	ND	12	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1273-0048	48	0312160008SA	9/13/1993	ND	11	UJ	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1273-0058	58	0312160009SA	9/13/1993	9.2	11	J	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	11	UJ	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	ND	14	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1274-0004	4	0312770003SA	9/14/1993	ND	11	UJ	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1274-0008	8	0312770004SA	9/14/1993	ND	11	UJ	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-1274-0018	18	0312770005SA	9/14/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1274-0028	28	0312770007SA	9/14/1993	ND	11	UJ	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-1274-0038	38	0312770008SA	9/14/1993	ND	11	UJ	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	11	UJ	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	10	UJ	ND	5.2	U	ND	5.2	U	ND	5.2	U	ND	10	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	14	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-1275-0008	8	0312770014SA	9/14/1993	ND	12	UJ	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	ND	15	U	1.2	5.8	J	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-1275-0028	28	0312770016SA	9/14/1993	10	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	ND	15	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1275-0048	48	0312770018SA	9/14/1993	ND	17	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-1275-0058	58	0312770019SA	9/14/1993	ND	15	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Acetone			Benzene			Bromodichloromethane			Bromoform [e]			Bromomethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					7.50E+03	1.40E+04	J	3.80E+03	7.20E+03	J	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					6.66E+07			1.54E+04			5.41E+03			6.20E+04			1.65E+04		
NMED Industrial SSL Concentration [d]					8.68E+08			8.47E+04			3.01E+04			2.20E+05			8.65E+04		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	12	U	ND	5.2	U	ND	5.2	U	ND	5.2	U	ND	10	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	11	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-1276-0004	4	0312150009SA	9/13/1993	ND	11	UJ	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	ND	11	UJ	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	11	UJ	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	ND	11	UJ	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1276-0038	38	0312150013SA	9/13/1993	ND	11	UJ	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	ND	16	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1276-0058	58	0312150015SA	9/13/1993	ND	16	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	11	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	11	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	ND	13	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-1277-0004	4	0311840011SA	9/12/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	ND	20	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-1277-0028	28	0311840014SA	9/12/1993	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	ND	14	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1277-0048	48	0311840016SA	9/12/1993	ND	20	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1277-0058	58	0311840017SA	9/12/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	11	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	11	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	ND	11	UJ	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-1278-0004	4	0311840004SA	9/12/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	110	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	ND	11	UJ	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-1278-0028	28	0311840007SA	9/12/1993	ND	13	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-1278-0038	38	0311840008SA	9/12/1993	ND	21	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	ND	16	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-1278-0058	58	0312160011SA	9/13/1993	ND	27	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	5,000	14,000	J	ND	7,000	U	ND	7,000	U	ND	7,000	U	ND	14,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	7.3	12	J	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	11	11		ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	7,500	14,000	J	3,800	7,200	J	ND	7,200	U	ND	7,200	U	ND	14,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	12	12		ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	12	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	11	11		ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	7.7	12	J	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	12	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Acetone			Benzene			Bromodichloromethane			Bromoform [e]			Bromomethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					7.50E+03	1.40E+04	J	3.80E+03	7.20E+03	J	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					6.66E+07			1.54E+04			5.41E+03			6.20E+04			1.65E+04		
NMED Industrial SSL Concentration [d]					8.68E+08			8.47E+04			3.01E+04			2.20E+05			8.65E+04		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	4.6	11	J	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	11	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	5.3	11	J	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	7	11	J	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	5	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	8.6	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	1.3	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	10	11	J	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	14	11		ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	5.6	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	3.1	11	J	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	25	11		ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Acetone			Benzene			Bromodichloromethane			Bromoform [e]			Bromomethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					7.50E+03	1.40E+04	J	3.80E+03	7.20E+03	J	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					6.66E+07			1.54E+04			5.41E+03			6.20E+04			1.65E+04		
NMED Industrial SSL Concentration [d]					8.68E+08			8.47E+04			3.01E+04			2.20E+05			8.65E+04		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	NR	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	13	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	11	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	11	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	19	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	9.5	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	8.5	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	26	11		ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	15	11		ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	16	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	6	12	J	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	4.6	11	J	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	14	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	4	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	13	U	ND	6.4	U	ND	6.4	U	ND	6.4	U	ND	13	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	3.6	11	J	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	6.5	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	5.3	11	J	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	4.8	11	J	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Acetone			Benzene			Bromodichloromethane			Bromoform [e]			Bromomethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					7.50E+03	1.40E+04	J	3.80E+03	7.20E+03	J	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					6.66E+07			1.54E+04			5.41E+03			6.20E+04			1.65E+04		
NMED Industrial SSL Concentration [d]					8.68E+08			8.47E+04			3.01E+04			2.20E+05			8.65E+04		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*31*	*of 141*		*2*	*of 141*		*0*	*of 141*		*0*	*0 141*		*0*	*of 141*	

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2-Butanone (MEK)			Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chloroethane (ethyl chloride) [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					6.20E+01	1.10E+01	J	ND	--	--	2.70E+00	5.80E+00	J	1.30E+00	5.80E+00	J	ND	--	--
NMED Residential SSL Concentration [d]					3.71E+07			1.53E+06			1.08E+04			3.76E+05			1.50E+07		
NMED Industrial SSL Concentration [d]					3.75E+08			8.33E+06			5.98E+04			2.12E+06			6.10E+07		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	12	U	ND	6.0	U	ND	6.0	U	ND	6.0	U	ND	12	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	ND	12	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	12	U
	CAN127-1272-0008	8	0313740010SA	9/23/1993	ND	12	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	12	U
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	10	U	ND	5.2	U	ND	5.2	U	ND	5.2	U	ND	10	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1273-0004	4	0312160004SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-1273-0028	28	0312160006SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1273-0038	38	0312160007SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1273-0048	48	0312160008SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1273-0058	58	0312160009SA	9/13/1993	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1274-0004	4	0312770003SA	9/14/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1274-0008	8	0312770004SA	9/14/1993	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-1274-0018	18	0312770005SA	9/14/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1274-0028	28	0312770007SA	9/14/1993	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-1274-0038	38	0312770008SA	9/14/1993	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	10	U	ND	5.2	U	ND	5.2	U	ND	5.2	U	ND	10	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-1275-0008	8	0312770014SA	9/14/1993	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	ND	12	U	ND	5.8	U	2.7	5.8	J	1.3	5.8	J	ND	12	U
	CAN127-1275-0028	28	0312770016SA	9/14/1993	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1275-0048	48	0312770018SA	9/14/1993	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-1275-0058	58	0312770019SA	9/14/1993	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2-Butanone (MEK)			Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chloroethane (ethyl chloride) [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					6.20E+01	1.10E+01	J	ND	--	--	2.70E+00	5.80E+00	J	1.30E+00	5.80E+00	J	ND	--	--
NMED Residential SSL Concentration [d]					3.71E+07			1.53E+06			1.08E+04			3.76E+05			1.50E+07		
NMED Industrial SSL Concentration [d]					3.75E+08			8.33E+06			5.98E+04			2.12E+06			6.10E+07		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	10	U	ND	5.2	U	ND	5.2	U	ND	5.2	U	ND	10	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-1276-0004	4	0312150009SA	9/13/1993	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1276-0038	38	0312150013SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1276-0058	58	0312150015SA	9/13/1993	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	11	U	ND	5.3	U	ND	5.3	U	ND	5.3	UJ	ND	11	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-1277-0004	4	0311840011SA	9/12/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-1277-0028	28	0311840014SA	9/12/1993	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1277-0048	48	0311840016SA	9/12/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-1277-0058	58	0311840017SA	9/12/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	11	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	11	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-1278-0004	4	0311840004SA	9/12/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	6.6	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	J	ND	11	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-1278-0028	28	0311840007SA	9/12/1993	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-1278-0038	38	0311840008SA	9/12/1993	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-1278-0058	58	0312160011SA	9/13/1993	7.1	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	14,000	U	ND	7,000	U	ND	7,000	U	ND	7,000	U	ND	14,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	14,000	U	ND	7,200	U	ND	7,200	U	ND	7,200	U	ND	14,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	12	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	12	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	12	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	12	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2-Butanone (MEK)			Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chloroethane (ethyl chloride) [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					6.20E+01	1.10E+01	J	ND	--	--	2.70E+00	5.80E+00	J	1.30E+00	5.80E+00	J	ND	--	--
NMED Residential SSL Concentration [d]					3.71E+07			1.53E+06			1.08E+04			3.76E+05			1.50E+07		
NMED Industrial SSL Concentration [d]					3.75E+08			8.33E+06			5.98E+04			2.12E+06			6.10E+07		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	11	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	11	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	12	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	11	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	62	11	J	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2-Butanone (MEK)			Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chloroethane (ethyl chloride) [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					6.20E+01	1.10E+01	J	ND	--	--	2.70E+00	5.80E+00	J	1.30E+00	5.80E+00	J	ND	--	--
NMED Residential SSL Concentration [d]					3.71E+07			1.53E+06			1.08E+04			3.76E+05			1.50E+07		
NMED Industrial SSL Concentration [d]					3.75E+08			8.33E+06			5.98E+04			2.12E+06			6.10E+07		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	1.3	11	J	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	11	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	11	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	12	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	13	U	ND	6.4	U	ND	6.4	U	ND	6.4	U	ND	13	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	11	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	11	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	11	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2-Butanone (MEK)			Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chloroethane (ethyl chloride) [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					6.20E+01	1.10E+01	J	ND	--	--	2.70E+00	5.80E+00	J	1.30E+00	5.80E+00	J	ND	--	--
NMED Residential SSL Concentration [d]					3.71E+07			1.53E+06			1.08E+04			3.76E+05			1.50E+07		
NMED Industrial SSL Concentration [d]					3.75E+08			8.33E+06			5.98E+04			2.12E+06			6.10E+07		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*4*	*of 141*		*0*	*of 141*		*1*	*of 141*		*2*	*of 141*		*0*	*of 141*	

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Chloroform			Chloromethane			Dibromochloromethane			1,1-Dichloroethane			1,2-Dichloroethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	1.90E+00	5.20E+00	J
NMED Residential SSL Concentration [d]					5.86E+03			2.75E+05			1.21E+04			6.45E+04			7.89E+03		
NMED Industrial SSL Concentration [d]					3.27E+04			1.29E+06			6.24E+04			3.59E+05			4.35E+04		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	5.8	U	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	ND	5.8	U	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	5.8	U	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	5.8	U	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	6.0	U	ND	12	U	ND	6.0	U	ND	6.0	U	ND	6.0	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	ND	5.9	U	ND	12	U	ND	5.9	U	ND	5.9	U	ND	5.9	U
	CAN127-1272-0008	8	0313740010SA	9/23/1993	ND	5.9	U	ND	12	U	ND	5.9	U	ND	5.9	U	ND	5.9	U
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	5.2	U	ND	10	U	ND	5.2	U	ND	5.2	U	ND	5.2	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0004	4	0312160004SA	9/13/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1273-0028	28	0312160006SA	9/13/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0038	38	0312160007SA	9/13/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0048	48	0312160008SA	9/13/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0058	58	0312160009SA	9/13/1993	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0004	4	0312770003SA	9/14/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0008	8	0312770004SA	9/14/1993	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-1274-0018	18	0312770005SA	9/14/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0028	28	0312770007SA	9/14/1993	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1274-0038	38	0312770008SA	9/14/1993	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	5.2	U	ND	10	U	ND	5.2	U	ND	5.2	U	ND	5.2	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	5.8	U	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-1275-0008	8	0312770014SA	9/14/1993	ND	5.8	U	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	ND	5.8	U	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1275-0028	28	0312770016SA	9/14/1993	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1275-0048	48	0312770018SA	9/14/1993	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1275-0058	58	0312770019SA	9/14/1993	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Chloroform			Chloromethane			Dibromochloromethane			1,1-Dichloroethane			1,2-Dichloroethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	1.90E+00	5.20E+00	J
NMED Residential SSL Concentration [d]					5.86E+03			2.75E+05			1.21E+04			6.45E+04			7.89E+03		
NMED Industrial SSL Concentration [d]					3.27E+04			1.29E+06			6.24E+04			3.59E+05			4.35E+04		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	5.2	U	ND	10	U	ND	5.2	U	ND	5.2	U	1.9	5.2	J
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-1276-0004	4	0312150009SA	9/13/1993	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0038	38	0312150013SA	9/13/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0058	58	0312150015SA	9/13/1993	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	5.3	U	ND	11	U	ND	5.3	U	ND	5.3	U	ND	5.3	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-1277-0004	4	0311840011SA	9/12/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-1277-0028	28	0311840014SA	9/12/1993	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1277-0048	48	0311840016SA	9/12/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1277-0058	58	0311840017SA	9/12/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	5.3	U	ND	11	U	ND	5.3	U	ND	5.3	U	ND	5.3	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-1278-0004	4	0311840004SA	9/12/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-1278-0028	28	0311840007SA	9/12/1993	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1278-0038	38	0311840008SA	9/12/1993	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1278-0058	58	0312160011SA	9/13/1993	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	7,000	U	ND	14,000	U	ND	7,000	U	ND	7,000	U	ND	7,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	5.8	U	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	7,200	U	ND	14,000	U	ND	7,200	U	ND	7,200	U	ND	7,200	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	5.9	U	ND	12	U	ND	5.9	U	ND	5.9	U	ND	5.9	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	5.9	U	ND	12	U	ND	5.9	U	ND	5.9	U	ND	5.9	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Chloroform			Chloromethane			Dibromochloromethane			1,1-Dichloroethane			1,2-Dichloroethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	1.90E+00	5.20E+00	J
NMED Residential SSL Concentration [d]					5.86E+03			2.75E+05			1.21E+04			6.45E+04			7.89E+03		
NMED Industrial SSL Concentration [d]					3.27E+04			1.29E+06			6.24E+04			3.59E+05			4.35E+04		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	5.3	U	ND	11	U	ND	5.3	U	ND	5.3	U	ND	5.3	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	5.8	U	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	5.8	U	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	5.7	U	ND	11	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Chloroform			Chloromethane			Dibromochloromethane			1,1-Dichloroethane			1,2-Dichloroethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	1.90E+00	5.20E+00	J
NMED Residential SSL Concentration [d]					5.86E+03			2.75E+05			1.21E+04			6.45E+04			7.89E+03		
NMED Industrial SSL Concentration [d]					3.27E+04			1.29E+06			6.24E+04			3.59E+05			4.35E+04		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	5.3	U	ND	11	U	ND	5.3	U	ND	5.3	U	ND	5.3	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	5.8	U	ND	12	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	6.4	U	ND	13	U	ND	6.4	U	ND	6.4	U	ND	6.4	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	5.6	U	ND	11	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	5.4	U	ND	11	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	5.5	U	ND	11	U	ND	5.5	U	ND	5.5	U	ND	5.5	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Chloroform			Chloromethane			Dibromochloromethane			1,1-Dichloroethane			1,2-Dichloroethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	1.90E+00	5.20E+00	J
NMED Residential SSL Concentration [d]					5.86E+03			2.75E+05			1.21E+04			6.45E+04			7.89E+03		
NMED Industrial SSL Concentration [d]					3.27E+04			1.29E+06			6.24E+04			3.59E+05			4.35E+04		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*0*	*of 141*		*0*	*of 141*		*0*	*of 141*		*0*	*of 141*		*1*	*of 141*	

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	1,1-Dichloroethene			1,2-Dichloroethene (total)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					1.90E+00	5.80E+00	J	1.30E+00	5.80E+00	J	1.30E+01	5.40E+00		ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					4.49E+05			NE			1.52E+04			NE			NE		
NMED Industrial SSL Concentration [d]					2.29E+06			NE			8.44E+04			NE			NE		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	6.0	U	ND	6.0	U	ND	6.0	U	ND	6.0	U	ND	6.0	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U
	CAN127-1272-0008	8	0313740010SA	9/23/1993	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	5.2	U	ND	5.2	U	ND	5.2	U	ND	5.2	U	ND	5.2	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0004	4	0312160004SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1273-0028	28	0312160006SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0038	38	0312160007SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0048	48	0312160008SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0058	58	0312160009SA	9/13/1993	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0004	4	0312770003SA	9/14/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0008	8	0312770004SA	9/14/1993	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-1274-0018	18	0312770005SA	9/14/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0028	28	0312770007SA	9/14/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1274-0038	38	0312770008SA	9/14/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	5.5	U	ND	5.5	U	5.7	5.5		ND	5.5	U	ND	5.5	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	ND	5.4	U	ND	5.4	U	13	5.4		ND	5.4	U	ND	5.4	U
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	5.2	U	ND	5.2	U	4.6	5.2	J	ND	5.2	U	ND	5.2	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-1275-0008	8	0312770014SA	9/14/1993	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	1.9	5.8	J	1.3	5.8	J	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1275-0028	28	0312770016SA	9/14/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	ND	5.5	U	ND	5.5	U	7.7	5.5		ND	5.5	U	ND	5.5	U
	CAN127-1275-0048	48	0312770018SA	9/14/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1275-0058	58	0312770019SA	9/14/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	1,1-Dichloroethene			1,2-Dichloroethene (total)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					1.90E+00	5.80E+00	J	1.30E+00	5.80E+00	J	1.30E+01	5.40E+00		ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					4.49E+05			NE			1.52E+04			NE			NE		
NMED Industrial SSL Concentration [d]					2.29E+06			NE			8.44E+04			NE			NE		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	5.2	U	ND	5.2	U	ND	5.2	U	ND	5.2	U	ND	5.2	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-1276-0004	4	0312150009SA	9/13/1993	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0038	38	0312150013SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0058	58	0312150015SA	9/13/1993	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-1277-0004	4	0311840011SA	9/12/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-1277-0028	28	0311840014SA	9/12/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1277-0048	48	0311840016SA	9/12/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1277-0058	58	0311840017SA	9/12/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-1278-0004	4	0311840004SA	9/12/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-1278-0028	28	0311840007SA	9/12/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1278-0038	38	0311840008SA	9/12/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1278-0058	58	0312160011SA	9/13/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	7,000	U	ND	7,000	U	ND	7,000	U	ND	7,000	U	ND	7,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	7,200	U	ND	7,200	U	ND	7,200	U	ND	7,200	U	ND	7,200	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	1,1-Dichloroethene			1,2-Dichloroethene (total)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					1.90E+00	5.80E+00	J	1.30E+00	5.80E+00	J	1.30E+01	5.40E+00		ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					4.49E+05			NE			1.52E+04			NE			NE		
NMED Industrial SSL Concentration [d]					2.29E+06			NE			8.44E+04			NE			NE		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	1,1-Dichloroethene			1,2-Dichloroethene (total)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					1.90E+00	5.80E+00	J	1.30E+00	5.80E+00	J	1.30E+01	5.40E+00		ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					4.49E+05			NE			1.52E+04			NE			NE		
NMED Industrial SSL Concentration [d]					2.29E+06			NE			8.44E+04			NE			NE		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	6.4	U	ND	6.4	U	ND	6.4	U	ND	6.4	U	ND	6.4	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	1,1-Dichloroethene			1,2-Dichloroethene (total)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					1.90E+00	5.80E+00	J	1.30E+00	5.80E+00	J	1.30E+01	5.40E+00		ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					4.49E+05			NE			1.52E+04			NE			NE		
NMED Industrial SSL Concentration [d]					2.29E+06			NE			8.44E+04			NE			NE		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*1*	*of 141*		*1*	*of 141*		*4*	*of 141*		*0*	*of 141*		*0*	*of 141*	

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Ethylbenzene			2-Hexanone [e]			4-Methyl-2-pentanone (MIBK)			Methylene chloride			Styrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					5.40E+04	7.20E+03		ND	--	--	3.30E+00	1.10E+01	J	9.10E+00	5.50E+00		ND	--	--
NMED Residential SSL Concentration [d]					6.84E+04			2.10E+05			5.82E+06			4.09E+05			7.28E+06		
NMED Industrial SSL Concentration [d]					3.78E+05			1.40E+06			7.38E+07			4.70E+06			5.00E+07		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	5.8	U	ND	12	U	ND	12	U	3.2	5.8	J	ND	5.8	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	ND	5.8	U	ND	12	U	ND	12	U	2.7	5.8	J	ND	5.8	U
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	5.8	U	ND	12	U	ND	12	U	2.5	5.8	J	ND	5.8	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	ND	5.7	U	ND	11	U	ND	11	U	3.5	5.7	J	ND	5.7	U
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	5.8	U	ND	12	U	ND	12	U	2.6	5.8	J	ND	5.8	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	6.0	U	ND	12	U	ND	12	U	3.1	6.0	J	ND	6.0	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	ND	5.9	U	ND	12	U	ND	12	U	2.8	5.9	J	ND	5.9	U
	CAN127-1272-0008	8	0313740010SA	9/23/1993	ND	5.9	U	ND	12	U	ND	12	U	3.4	5.9	J	ND	5.9	U
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	5.2	U	ND	10	U	ND	10	U	ND	5.2	U	ND	5.2	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0004	4	0312160004SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-1273-0028	28	0312160006SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0038	38	0312160007SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0048	48	0312160008SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0058	58	0312160009SA	9/13/1993	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	5.4	U
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	9.1	5.5		ND	5.5	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	9.0	5.5		ND	5.5	U
	CAN127-1274-0004	4	0312770003SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	5.1	5.5	J	ND	5.5	U
	CAN127-1274-0008	8	0312770004SA	9/14/1993	ND	5.7	U	ND	11	U	ND	11	U	5.6	5.7	J	ND	5.7	U
	CAN127-1274-0018	18	0312770005SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	5.1	5.5	J	ND	5.5	U
	CAN127-1274-0028	28	0312770007SA	9/14/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-1274-0038	38	0312770008SA	9/14/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	5.4	U
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	5.2	U	ND	10	U	ND	10	U	6.5	5.2		ND	5.2	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	5.8	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	5.7	U
	CAN127-1275-0008	8	0312770014SA	9/14/1993	ND	5.8	U	ND	12	U	ND	12	U	1.7	5.8	J	ND	5.8	U
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	1.3	5.8	J	ND	12	U	ND	12	U	1.8	5.8	J	ND	5.8	U
	CAN127-1275-0028	28	0312770016SA	9/14/1993	ND	5.6	U	ND	11	U	ND	11	U	1.9	5.6	J	ND	5.6	U
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	7.2	5.5		ND	5.5	U
	CAN127-1275-0048	48	0312770018SA	9/14/1993	ND	5.6	U	ND	11	U	ND	11	U	7.8	5.6		ND	5.6	U
	CAN127-1275-0058	58	0312770019SA	9/14/1993	ND	5.6	U	ND	11	U	ND	11	U	5.2	5.6	J	ND	5.6	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Ethylbenzene			2-Hexanone [e]			4-Methyl-2-pentanone (MIBK)			Methylene chloride			Styrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					5.40E+04	7.20E+03		ND	--	--	3.30E+00	1.10E+01	J	9.10E+00	5.50E+00		ND	--	--
NMED Residential SSL Concentration [d]					6.84E+04			2.10E+05			5.82E+06			4.09E+05			7.28E+06		
NMED Industrial SSL Concentration [d]					3.78E+05			1.40E+06			7.38E+07			4.70E+06			5.00E+07		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	5.2	U	ND	10	U	ND	10	U	2.1	5.2	J	ND	5.2	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	ND	5.4	U	ND	11	U	ND	11	U	6.8	5.4		ND	5.4	U
	CAN127-1276-0004	4	0312150009SA	9/13/1993	ND	5.4	U	ND	11	U	ND	11	U	3.7	5.4	J	ND	5.4	U
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	3.5	5.5	J	ND	5.5	U
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	3.6	5.5	J	ND	5.5	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	3.4	5.5	J	ND	5.5	U
	CAN127-1276-0038	38	0312150013SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	2.9	5.5	J	ND	5.5	U
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	1.1	5.5	J	ND	5.5	U
	CAN127-1276-0058	58	0312150015SA	9/13/1993	ND	5.4	U	ND	11	U	ND	11	U	1.4	5.4	J	ND	5.4	U
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	5.3	UJ	ND	11	UJ	ND	11	U	2.9	5.3	J	ND	5.3	UJ
	CAN127-1277-0002	2	0311840010SA	9/12/1993	ND	5.4	U	ND	11	U	ND	11	U	2.2	5.4	J	ND	5.4	U
	CAN127-1277-0004	4	0311840011SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	5.7	U
	CAN127-1277-0028	28	0311840014SA	9/12/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-1277-0048	48	0311840016SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-1277-0058	58	0311840017SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	5.3	U	ND	11	U	ND	11	U	3.0	5.3	J	ND	5.3	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	ND	5.4	U	ND	11	U	ND	11	U	3.4	5.4	J	ND	5.4	U
	CAN127-1278-0004	4	0311840004SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	1.2	5.5	J	ND	5.5	U
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	5.6	J	ND	11	U	ND	11	U	4.4	5.6	J	ND	5.6	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	ND	5.7	U	ND	11	U	ND	11	U	4.1	5.7	J	ND	5.7	U
	CAN127-1278-0028	28	0311840007SA	9/12/1993	ND	5.6	U	ND	11	U	ND	11	U	3.9	5.6	J	ND	5.6	U
	CAN127-1278-0038	38	0311840008SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	2.5	5.5	J	ND	5.5	U
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	ND	5.6	U	ND	11	U	ND	11	U	2.0	5.6	J	ND	5.6	U
	CAN127-1278-0058	58	0312160011SA	9/13/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	3,900	7,000	J	ND	14,000	U	ND	14,000	U	ND	7,000	U	ND	7,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	5.8	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	5.7	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	54,000	7,200		ND	14,000	U	ND	14,000	U	ND	7,200	U	ND	7,200	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	5.9	U	ND	12	U	ND	12	U	ND	5.9	U	ND	5.9	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	5.9	U	ND	12	U	ND	12	U	ND	5.9	U	ND	5.9	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Ethylbenzene			2-Hexanone [e]			4-Methyl-2-pentanone (MIBK)			Methylene chloride			Styrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					5.40E+04	7.20E+03		ND	--	--	3.30E+00	1.10E+01	J	9.10E+00	5.50E+00		ND	--	--
NMED Residential SSL Concentration [d]					6.84E+04			2.10E+05			5.82E+06			4.09E+05			7.28E+06		
NMED Industrial SSL Concentration [d]					3.78E+05			1.40E+06			7.38E+07			4.70E+06			5.00E+07		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	5.4	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	5.3	U	ND	11	U	ND	11	U	ND	5.3	U	ND	5.3	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	5.7	U	ND	11	U	ND	11	U	1.3	5.7	J	ND	5.7	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	1.2	5.6	J	ND	5.6	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	1.6	5.6	UJ	ND	5.6	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	1.2	5.5	UJ	ND	5.5	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	1.5	5.6	UJ	ND	5.6	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	1.6	5.6	UJ	ND	5.6	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	5.4	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	5.7	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	5.7	U	ND	11	U	3.3	11	J	ND	5.7	U	ND	5.7	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	6	U	ND	5.5	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	6.1	U	ND	5.5	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.7	U	ND	5.4	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	6.9	U	ND	5.6	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	6	U	ND	5.6	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	6.7	U	ND	5.6	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	5.8	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	6	U	ND	5.6	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	6	U	ND	5.6	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	6.7	6.7		ND	5.5	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	6.5	U	ND	5.5	U
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	7	U	ND	5.6	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	6.3	U	ND	5.7	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	5.8	U	ND	12	U	ND	12	U	ND	6.3	U	ND	5.8	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.7	U	ND	5.6	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	5.7	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	5.6	U	ND	12	U	ND	12	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	5.7	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Ethylbenzene			2-Hexanone [e]			4-Methyl-2-pentanone (MIBK)			Methylene chloride			Styrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					5.40E+04	7.20E+03		ND	--	--	3.30E+00	1.10E+01	J	9.10E+00	5.50E+00		ND	--	--
NMED Residential SSL Concentration [d]					6.84E+04			2.10E+05			5.82E+06			4.09E+05			7.28E+06		
NMED Industrial SSL Concentration [d]					3.78E+05			1.40E+06			7.38E+07			4.70E+06			5.00E+07		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	4.4	5.4		ND	5.4	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	8	U	ND	5.4	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	4.2	5.4	J	ND	5.4	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	J	ND	5.5	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	5.3	U	ND	11	U	ND	11	U	ND	5.3	U	ND	5.3	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	4.4	5.5	J	ND	5.5	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	4.6	5.5	J	ND	5.5	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	5.4	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	5.8	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	6.4	U	ND	13	U	ND	13	U	ND	6.4	U	ND	6.4	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	5.4	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	5.5	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Ethylbenzene			2-Hexanone [e]			4-Methyl-2-pentanone (MIBK)			Methylene chloride			Styrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					5.40E+04	7.20E+03		ND	--	--	3.30E+00	1.10E+01	J	9.10E+00	5.50E+00		ND	--	--
NMED Residential SSL Concentration [d]					6.84E+04			2.10E+05			5.82E+06			4.09E+05			7.28E+06		
NMED Industrial SSL Concentration [d]					3.78E+05			1.40E+06			7.38E+07			4.70E+06			5.00E+07		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*4*	*of 141*		*0*	*of 141*		*1*	*of 141*		*47*	*of 141*		*0*	*of 141*	

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	1,1,2,2-Tetrachloroethane			Tetrachloroethene			Toluene			1,1,1-Trichloroethane			1,1,2-Trichloroethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	2.90E+00	5.80E+00	J	8.20E+04	5.80E+00		1.80E+00	5.80E+00	J	ND	--	--
NMED Residential SSL Concentration [d]					8.02E+03			7.02E+03			5.27E+06			1.56E+07			2.81E+03		
NMED Industrial SSL Concentration [d]					4.35E+04			3.66E+04			5.77E+07			7.89E+07			1.33E+04		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	6.0	U	ND	6.0	U	ND	6.0	U	ND	6.0	U	ND	6.0	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U
	CAN127-1272-0008	8	0313740010SA	9/23/1993	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	5.2	U	ND	5.2	U	12	5.2		ND	5.2	U	ND	5.2	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0004	4	0312160004SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	ND	5.6	U	ND	5.6	U	3.5	5.6	J	ND	5.6	U	ND	5.6	U
	CAN127-1273-0028	28	0312160006SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0038	38	0312160007SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0048	48	0312160008SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1273-0058	58	0312160009SA	9/13/1993	ND	5.4	U	ND	5.4	U	1.2	5.4	J	ND	5.4	U	ND	5.4	U
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	5.5	U	ND	5.5	U	2.3	5.5	J	ND	5.5	U	ND	5.5	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	ND	5.5	U	ND	5.5	U	2.8	5.5	J	ND	5.5	U	ND	5.5	U
	CAN127-1274-0004	4	0312770003SA	9/14/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0008	8	0312770004SA	9/14/1993	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-1274-0018	18	0312770005SA	9/14/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1274-0028	28	0312770007SA	9/14/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1274-0038	38	0312770008SA	9/14/1993	ND	5.6	U	ND	5.6	U	2.0	5.6	J	ND	5.6	U	ND	5.6	U
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	5.5	U	ND	5.5	U	3.3	5.5	J	ND	5.5	U	ND	5.5	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	ND	5.4	U	ND	5.4	U	1.6	5.4	J	ND	5.4	U	ND	5.4	U
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	5.2	U	ND	5.2	U	5.2	5.2		ND	5.2	U	ND	5.2	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	ND	5.7	U	ND	5.7	U	5.4	5.7	J	ND	5.7	U	ND	5.7	U
	CAN127-1275-0008	8	0312770014SA	9/14/1993	ND	5.8	U	ND	5.8	U	18	5.8		ND	5.8	U	ND	5.8	U
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	ND	5.8	U	2.9	5.8	J	6.2	5.8		1.8	5.8	J	ND	5.8	U
	CAN127-1275-0028	28	0312770016SA	9/14/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	ND	5.5	U	ND	5.5	U	7.2	5.5		ND	5.5	U	ND	5.5	U
	CAN127-1275-0048	48	0312770018SA	9/14/1993	ND	5.6	U	ND	5.6	U	12	5.6		ND	5.6	U	ND	5.6	U
	CAN127-1275-0058	58	0312770019SA	9/14/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	1,1,2,2-Tetrachloroethane			Tetrachloroethene			Toluene			1,1,1-Trichloroethane			1,1,2-Trichloroethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	2.90E+00	5.80E+00	J	8.20E+04	5.80E+00		1.80E+00	5.80E+00	J	ND	--	--
NMED Residential SSL Concentration [d]					8.02E+03			7.02E+03			5.27E+06			1.56E+07			2.81E+03		
NMED Industrial SSL Concentration [d]					4.35E+04			3.66E+04			5.77E+07			7.89E+07			1.33E+04		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	5.2	U	ND	5.2	U	15	5.2		ND	5.2	U	ND	5.2	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-1276-0004	4	0312150009SA	9/13/1993	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0038	38	0312150013SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-1276-0058	58	0312150015SA	9/13/1993	ND	5.4	U	ND	5.4	U	2.5	5.4	J	ND	5.4	U	ND	5.4	U
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	5.3	UJ	ND	5.3	UJ	5.5	5.3	J	ND	5.3	U	ND	5.3	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	ND	5.4	U	ND	5.4	U	3.8	5.4	J	ND	5.4	U	ND	5.4	U
	CAN127-1277-0004	4	0311840011SA	9/12/1993	ND	5.5	U	ND	5.5	U	2.1	5.5	J	ND	5.5	U	ND	5.5	U
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-1277-0028	28	0311840014SA	9/12/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	ND	5.5	U	ND	5.5	U	1.7	5.5	J	ND	5.5	U	ND	5.5	U
	CAN127-1277-0048	48	0311840016SA	9/12/1993	ND	5.5	U	ND	5.5	U	2.0	5.5	J	ND	5.5	U	ND	5.5	U
	CAN127-1277-0058	58	0311840017SA	9/12/1993	ND	5.5	U	ND	5.5	U	2.6	5.5	J	ND	5.5	U	ND	5.5	U
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-1278-0004	4	0311840004SA	9/12/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-1278-0028	28	0311840007SA	9/12/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1278-0038	38	0311840008SA	9/12/1993	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-1278-0058	58	0312160011SA	9/13/1993	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	7,000	U	ND	7,000	U	14,000	7,000		ND	7,000	U	ND	7,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	7,200	U	ND	7,200	U	82,000	7,200		ND	7,200	U	ND	7,200	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U	ND	5.9	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	1,1,2,2-Tetrachloroethane			Tetrachloroethene			Toluene			1,1,1-Trichloroethane			1,1,2-Trichloroethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	2.90E+00	5.80E+00	J	8.20E+04	5.80E+00		1.80E+00	5.80E+00	J	ND	--	--
NMED Residential SSL Concentration [d]					8.02E+03			7.02E+03			5.27E+06			1.56E+07			2.81E+03		
NMED Industrial SSL Concentration [d]					4.35E+04			3.66E+04			5.77E+07			7.89E+07			1.33E+04		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	5.7	U	ND	5.7	U	1.3	5.7	J	ND	5.7	U	ND	5.7	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	5.5	U	ND	5.5	U	1.3	5.5	J	ND	5.5	U	ND	5.5	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	5.6	U	ND	5.6	U	1.2	5.6	J	ND	5.6	U	ND	5.6	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	5.6	U	ND	5.6	U	1.6	5.6	J	ND	5.6	U	ND	5.6	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	5.7	U	ND	5.7	U	9	5.7		ND	5.7	U	ND	5.7	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U	ND	5.7	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	1,1,2,2-Tetrachloroethane			Tetrachloroethene			Toluene			1,1,1-Trichloroethane			1,1,2-Trichloroethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	2.90E+00	5.80E+00	J	8.20E+04	5.80E+00		1.80E+00	5.80E+00	J	ND	--	--
NMED Residential SSL Concentration [d]					8.02E+03			7.02E+03			5.27E+06			1.56E+07			2.81E+03		
NMED Industrial SSL Concentration [d]					4.35E+04			3.66E+04			5.77E+07			7.89E+07			1.33E+04		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U	ND	5.3	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U	ND	5.8	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	5.5	U	ND	5.5	U	2.8	5.5	J	ND	5.5	U	ND	5.5	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	6.4	U	ND	6.4	U	ND	6.4	U	ND	6.4	U	ND	6.4	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U	ND	5.6	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U	ND	5.4	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U	ND	5.5	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	1,1,2,2-Tetrachloroethane			Tetrachloroethene			Toluene			1,1,1-Trichloroethane			1,1,2-Trichloroethane		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	2.90E+00	5.80E+00	J	8.20E+04	5.80E+00		1.80E+00	5.80E+00	J	ND	--	--
NMED Residential SSL Concentration [d]					8.02E+03			7.02E+03			5.27E+06			1.56E+07			2.81E+03		
NMED Industrial SSL Concentration [d]					4.35E+04			3.66E+04			5.77E+07			7.89E+07			1.33E+04		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*0*	*of 141*		*1*	*of 141*		*30*	*of 141*		*1*	*of 141*		*0*	*of 141*	

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Trichloroethene			Vinyl acetate			Vinyl chloride			Xylenes (total)			Acenaphthene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					2.30E+00	5.80E+00	J	ND	--	--	ND	--	--	2.60E+05	5.20E+00		1.50E+02	1.40E+03	J
NMED Residential SSL Concentration [d]					8.77E+03			2.56E+06			7.28E+02			8.14E+05			3.44E+06		
NMED Industrial SSL Concentration [d]					4.13E+04			1.23E+07			2.61E+04			3.98E+06			3.67E+07		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	6.0	U	ND	12	U	ND	12	U	ND	6.0	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	ND	5.9	U	ND	12	U	ND	12	U	ND	5.9	U	*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	ND	5.9	U	ND	12	U	ND	12	U	ND	5.9	U	*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	5.2	U	ND	10	U	ND	10	U	3.4	5.2	J	ND	350	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	1.5	5.5	J	ND	370	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	5.2	U	ND	10	U	ND	10	U	ND	5.2	U	150	1,400	J
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	2.3	5.8	J	ND	12	U	ND	12	U	2.4	5.8	J	*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Trichloroethene			Vinyl acetate			Vinyl chloride			Xylenes (total)			Acenaphthene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					2.30E+00	5.80E+00	J	ND	--	--	ND	--	--	2.60E+05	5.20E+00		1.50E+02	1.40E+03	J
NMED Residential SSL Concentration [d]					8.77E+03			2.56E+06			7.28E+02			8.14E+05			3.44E+06		
NMED Industrial SSL Concentration [d]					4.13E+04			1.23E+07			2.61E+04			3.98E+06			3.67E+07		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	5.2	U	ND	10	U	ND	10	U	12	5.2		ND	340	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	5.3	U	ND	11	U	ND	11	U	5.9	5.3		ND	350	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	ND	5.4	U	ND	11	U	ND	11	U	1.5	5.4	J	*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	5.3	U	ND	11	U	ND	11	U	ND	5.3	U	ND	1,400	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	7,000	U	ND	14,000	U	ND	14,000	U	33,000	7,000		ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	7,200	U	ND	14,000	U	ND	14,000	U	260,000	7,200		ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	5.9	U	ND	12	U	ND	12	U	ND	5.9	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	5.9	U	ND	12	U	ND	12	U	ND	5.9	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Trichloroethene			Vinyl acetate			Vinyl chloride			Xylenes (total)			Acenaphthene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					2.30E+00	5.80E+00	J	ND	--	--	ND	--	--	2.60E+05	5.20E+00		1.50E+02	1.40E+03	J
NMED Residential SSL Concentration [d]					8.77E+03			2.56E+06			7.28E+02			8.14E+05			3.44E+06		
NMED Industrial SSL Concentration [d]					4.13E+04			1.23E+07			2.61E+04			3.98E+06			3.67E+07		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	360	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	5.3	U	ND	11	U	ND	11	U	ND	5.3	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	54	360	J
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	360	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	UJ
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	370	U
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	5.6	U	ND	12	U	ND	12	U	ND	5.6	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	5.7	U	ND	11	U	ND	11	U	ND	5.7	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Trichloroethene			Vinyl acetate			Vinyl chloride			Xylenes (total)			Acenaphthene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					2.30E+00	5.80E+00	J	ND	--	--	ND	--	--	2.60E+05	5.20E+00		1.50E+02	1.40E+03	J
NMED Residential SSL Concentration [d]					8.77E+03			2.56E+06			7.28E+02			8.14E+05			3.44E+06		
NMED Industrial SSL Concentration [d]					4.13E+04			1.23E+07			2.61E+04			3.98E+06			3.67E+07		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	360	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	5.3	U	ND	11	U	ND	11	U	ND	5.3	U	ND	350	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	5.8	U	ND	12	U	ND	12	U	ND	5.8	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	6.4	U	ND	13	U	ND	13	U	ND	6.4	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	5.6	U	ND	11	U	ND	11	U	ND	5.6	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	5.4	U	ND	11	U	ND	11	U	ND	5.4	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	5.5	U	ND	11	U	ND	11	U	ND	5.5	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Trichloroethene			Vinyl acetate			Vinyl chloride			Xylenes (total)			Acenaphthene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					2.30E+00	5.80E+00	J	ND	--	--	ND	--	--	2.60E+05	5.20E+00		1.50E+02	1.40E+03	J
NMED Residential SSL Concentration [d]					8.77E+03			2.56E+06			7.28E+02			8.14E+05			3.44E+06		
NMED Industrial SSL Concentration [d]					4.13E+04			1.23E+07			2.61E+04			3.98E+06			3.67E+07		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
Frequency of Detection					*1*	*of 141*		*0*	*of 141*		*0*	*of 141*		*8*	*of 141*		*2*	*of 127*	

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Acenaphthylene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					7.80E+01	2.20E+02	J	1.00E+02	3.50E+02	J	8.00E+03	1.40E+03		8.60E+03	1.40E+03		1.70E+04	1.40E+03	
NMED Residential SSL Concentration [d]					NE			1.72E+07			1.48E+03			1.48E+02			1.48E+03		
NMED Industrial SSL Concentration [d]					NE			1.83E+08			2.34E+04			2.34E+03			2.34E+04		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	400	U	ND	400	U	ND	400	U	ND	400	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	350	U	48	350	J	510	350		550	350		960	350	
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	370	U	ND	370	U	83	370	J	120	370	J	270	370	J
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	1,400	U	ND	1,400	U	8,000	1,400		8,600	1,400		17,000	1,400	
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Acenaphthylene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					7.80E+01	2.20E+02	J	1.00E+02	3.50E+02	J	8.00E+03	1.40E+03		8.60E+03	1.40E+03		1.70E+04	1.40E+03	
NMED Residential SSL Concentration [d]					NE			1.72E+07			1.48E+03			1.48E+02			1.48E+03		
NMED Industrial SSL Concentration [d]					NE			1.83E+08			2.34E+04			2.34E+03			2.34E+04		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	340	U	ND	340	U	160	340	J	230	340	J	410	340	
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	350	U	ND	350	U	190	350	J	180	350	J	390	350	
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	1,400	U	ND	1,400	U	150	1,400	J	180	1,400	J	380	1,400	J
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Acenaphthylene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					7.80E+01	2.20E+02	J	1.00E+02	3.50E+02	J	8.00E+03	1.40E+03		8.60E+03	1.40E+03		1.70E+04	1.40E+03	
NMED Residential SSL Concentration [d]					NE			1.72E+07			1.48E+03			1.48E+02			1.48E+03		
NMED Industrial SSL Concentration [d]					NE			1.83E+08			2.34E+04			2.34E+03			2.34E+04		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	360	U	68	360	J	910	360		1100	360		1,100	360	J
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	UJ
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	UJ
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	UJ
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	UJ
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	UJ
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	UJ
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	360	U	100	360	J	1,100	360		1300	360		2,000	360	J
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	UJ
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	360	U	56	360	J	660	360		800	360		1,600	360	
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	360	U	ND	360	U	95	360	J	130	360	J	310	360	J
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	360	UJ	ND	360	UJ	89	360	J	110	360	J	230	360	J
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	360	UJ	ND	360	UJ	91	360	J	100	360	J	250	360	J
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Acenaphthylene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					7.80E+01	2.20E+02	J	1.00E+02	3.50E+02	J	8.00E+03	1.40E+03		8.60E+03	1.40E+03		1.70E+04	1.40E+03	
NMED Residential SSL Concentration [d]					NE			1.72E+07			1.48E+03			1.48E+02			1.48E+03		
NMED Industrial SSL Concentration [d]					NE			1.83E+08			2.34E+04			2.34E+03			2.34E+04		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	370	U	52	370	J	450	370		640	370		750	370	
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	360	U	ND	360	U	96	360	J	140	360	J	150	360	J
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	37	360	J
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	370	U	44	370	J	370	370		580	370		640	370	
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	360	U	ND	360	U	260	360	J	400	360		420	360	
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	43	350	J	74	350	J
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	370	U	ND	370	U	84	370	J	110	370	J	100	370	J
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	420	U	ND	420	U	ND	420	U	ND	420	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Acenaphthylene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					7.80E+01	2.20E+02	J	1.00E+02	3.50E+02	J	8.00E+03	1.40E+03		8.60E+03	1.40E+03		1.70E+04	1.40E+03	
NMED Residential SSL Concentration [d]					NE			1.72E+07			1.48E+03			1.48E+02			1.48E+03		
NMED Industrial SSL Concentration [d]					NE			1.83E+08			2.34E+04			2.34E+03			2.34E+04		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	ND	230	U	ND	12	U	2.0	12	J	3.7	12	J	ND	23	U
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	ND	240	U	ND	12	U	7.0	12	J	25	12		42	24	
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	ND	230	U	ND	11	U	2.4	11	J	7.3	11	J	ND	23	U
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	ND	230	U	ND	12	U	ND	12	U	ND	12	U	ND	23	U
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	ND	230	U	ND	11	U	ND	11	U	ND	11	U	ND	23	U
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	ND	230	U	ND	11	U	6.3	11	J	5.0	11	J	ND	23	U
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	ND	230	U	ND	12	U	ND	12	U	ND	12	U	ND	23	U
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	ND	230	U	ND	12	U	ND	12	U	ND	12	U	ND	23	U
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	ND	240	U	ND	12	U	6.3	12	J	6.7	12	J	8.6	24	J
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	ND	230	U	ND	12	U	9.5	12	J	9.5	12	J	13	23	J
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	25	220	J	ND	11	U	53	11		68	11		84	22	
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	36	220	J	ND	11	U	2.6	11	J	3.6	11	J	ND	22	U
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	ND	220	U	ND	11	U	82	11		130	11		170	22	
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	ND	210	U	ND	11	U	110	11		140	11		170	21	
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	ND	220	U	ND	11	U	120	11		190	11		230	22	
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	ND	220	U	ND	11	U	5.8	11	J	9.1	11	J	11	22	J
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	27	230	J	ND	12	U	29	12		44	12		56	23	
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	47	210	J	ND	11	U	40	11		67	11		81	21	
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	ND	210	U	ND	11	U	28	11		51	11		63	21	
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	78	220	J	3.6	11	J	61	11		110	11		140	22	
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	ND	220	U	ND	11	U	ND	11	U	2.6	11	J	ND	22	U
Frequency of Detection					*5*	*of*	*127*	*7*	*of*	*127*	*33*	*of*	*127*	*35*	*of*	*127*	*31*	*of*	*127*

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Benzo(g,h,i)perylene			Benzo(k)fluoranthene			Benzoic acid [e]			Benzyl alcohol [e]			bis(2-Chloroethoxy) methane [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					5.10E+03	1.40E+03		1.60E+03	1.10E+01		4.80E+01	1.80E+03	J	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			1.48E+04			2.40E+05			6.10E+06			1.80E+05		
NMED Industrial SSL Concentration [d]					NE			2.34E+05			2.50E+06			6.20E+07			1.80E+06		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	380	U	ND	380	U	*not sampled*			ND	380	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	380	U	ND	380	U	*not sampled*			ND	380	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	380	U	ND	380	U	*not sampled*			ND	380	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	400	U	ND	400	U	*not sampled*			ND	400	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	470	350		ND	350	U	*not sampled*			ND	350	U	ND	350	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	360	U	ND	360	U	*not sampled*			ND	360	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	72	370	J	ND	370	U	*not sampled*			ND	370	U	ND	370	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	360	U	ND	360	U	*not sampled*			ND	360	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	5,100	1,400		ND	1,400	U	*not sampled*			ND	1,400	U	ND	1,400	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	380	U	ND	380	U	*not sampled*			ND	380	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Benzo(g,h,i)perylene			Benzo(k)fluoranthene			Benzoic acid [e]			Benzyl alcohol [e]			bis(2-Chloroethoxy) methane [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					5.10E+03	1.40E+03		1.60E+03	1.10E+01		4.80E+01	1.80E+03	J	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			1.48E+04			2.40E+05			6.10E+06			1.80E+05		
NMED Industrial SSL Concentration [d]					NE			2.34E+05			2.50E+06			6.20E+07			1.80E+06		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	190	340	J	ND	340	U	*not sampled*			ND	340	U	ND	340	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	360	U	ND	360	U	*not sampled*			ND	360	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	91	350	J	ND	350	U	*not sampled*			ND	350	U	ND	350	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	360	U	ND	360	U	*not sampled*			ND	360	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	1,400	U	ND	1,400	U	*not sampled*			ND	1,400	U	ND	1,400	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	370	U	ND	370	U	*not sampled*			ND	370	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	37,000	U	ND	37,000	U	ND	180,000	U	ND	37,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	380	U	ND	380	U	ND	1800	U	ND	380	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	380	U	ND	380	U	ND	1800	U	ND	380	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	38,000	U	ND	38,000	U	ND	180,000	U	ND	38,000	U	ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	390	U	ND	390	U	ND	1900	U	ND	390	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	360	U	ND	360	U	ND	1800	U	ND	360	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	390	U	ND	390	U	ND	1900	U	ND	390	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Benzo(g,h,i)perylene			Benzo(k)fluoranthene			Benzoic acid [e]			Benzyl alcohol [e]			bis(2-Chloroethoxy) methane [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					5.10E+03	1.40E+03		1.60E+03	1.10E+01		4.80E+01	1.80E+03	J	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			1.48E+04			2.40E+05			6.10E+06			1.80E+05		
NMED Industrial SSL Concentration [d]					NE			2.34E+05			2.50E+06			6.20E+07			1.80E+06		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	700	360		1600	360		ND	1700	U	ND	360	U	ND	360	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	350	U	ND	350	U	ND	1700	U	ND	350	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	370	U	ND	370	U	ND	1800	U	ND	370	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	370	U	ND	370	U	ND	1800	U	ND	370	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	370	U	ND	370	U	ND	1800	U	ND	370	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	370	U	ND	370	U	ND	1800	U	ND	370	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	370	U	ND	370	U	ND	1800	U	ND	370	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	370	U	ND	370	U	ND	1800	U	ND	370	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	360	U	ND	360	U	ND	1800	U	ND	360	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	370	U	ND	370	U	ND	1800	U	ND	370	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	780	360		ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	640	360		ND	360	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	100	360	J	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	1,800	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	1,800	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	1,800	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	1,800	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	1,900	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	380	U	ND	380	U	ND	1,900	U	ND	380	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	1,800	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	1,800	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Benzo(g,h,i)perylene			Benzo(k)fluoranthene			Benzoic acid [e]			Benzyl alcohol [e]			bis(2-Chloroethoxy) methane [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					5.10E+03	1.40E+03		1.60E+03	1.10E+01		4.80E+01	1.80E+03	J	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			1.48E+04			2.40E+05			6.10E+06			1.80E+05		
NMED Industrial SSL Concentration [d]					NE			2.34E+05			2.50E+06			6.20E+07			1.80E+06		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	340	370	J	800	370		ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	90	360	J	170	360	J	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	350	U	ND	350	U	ND	1,700	U	ND	350	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	340	370	J	720	370		ND	1,800	U	ND	370	U	ND	370	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	270	360	J	470	360		48	1,800	J	ND	360	U	ND	360	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	350	U	ND	350	U	ND	1,700	U	ND	350	U	ND	350	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	88	370	J	190	370	J	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	420	U	ND	420	U	ND	2,000	U	ND	420	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	350	U	ND	350	U	ND	1,700	U	ND	350	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Benzo(g,h,i)perylene			Benzo(k)fluoranthene			Benzoic acid [e]			Benzyl alcohol [e]			bis(2-Chloroethoxy) methane [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					5.10E+03	1.40E+03		1.60E+03	1.10E+01		4.80E+01	1.80E+03	J	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			1.48E+04			2.40E+05			6.10E+06			1.80E+05		
NMED Industrial SSL Concentration [d]					NE			2.34E+05			2.50E+06			6.20E+07			1.80E+06		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	2.5	23	J	2.3	12	J	*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	65	24		18	12		*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	9.0	23	J	4.1	11	J	*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	ND	23	U	ND	12	U	*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	ND	23	U	ND	11	U	*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	3.4	23	J	3.3	11	J	*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	ND	23	U	ND	12	U	*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	ND	23	U	ND	12	U	*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	5.0	24	J	3.4	12	J	*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	7.5	23	J	5	12	J	*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	83	22		33	11		*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	4.0	22	J	2.2	11	J	*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	170	22		78	11		*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	170	21		65	11		*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	230	22		88	11		*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	ND	22	U	4.5	11	J	*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	59	23		31	12		*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	81	21		31	11		*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	66	21		39	11		*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	160	22		47	11		*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	ND	22	U	2	11	J	*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*29*	*of 127*		*23*	*of 127*		*1*	*of 90*		*0*	*of 106*		*0*	*of 106*	

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	bis(2-Chloroethyl) ether			bis(2-Chloroisopropyl) ether			bis(2-Ethylhexyl) phthalate			4-Bromophenyl phenyl ether			Butyl benzyl phthalate [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	1.30E+04	1.40E+03		ND	--	--	1.10E+02	3.80E+02	J
NMED Residential SSL Concentration [d]					2.68E+03			9.15E+04			3.47E+05			NE			2.60E+05		
NMED Industrial SSL Concentration [d]					1.42E+04			4.54E+05			1.37E+06			NE			9.10E+05		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	110	380	J
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	400	U	ND	400	U	ND	400	U	ND	400	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	350	U	ND	350	U	80	350	J	ND	350	U	ND	350	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	370	U	ND	370	U	40	370	UJ	ND	370	U	ND	370	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	1,400	U	ND	1,400	U	140	1,400	UJ	ND	1,400	U	ND	1,400	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	bis(2-Chloroethyl) ether			bis(2-Chloroisopropyl) ether			bis(2-Ethylhexyl) phthalate			4-Bromophenyl phenyl ether			Butyl benzyl phthalate [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	1.30E+04	1.40E+03		ND	--	--	1.10E+02	3.80E+02	J
NMED Residential SSL Concentration [d]					2.68E+03			9.15E+04			3.47E+05			NE			2.60E+05		
NMED Industrial SSL Concentration [d]					1.42E+04			4.54E+05			1.37E+06			NE			9.10E+05		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	340	U	ND	340	U	ND	340	U	ND	340	U	ND	340	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	350	U	ND	350	U	37	350	J	ND	350	U	ND	350	J
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	1,400	U	ND	1,400	U	13000	1,400		ND	1,400	U	ND	1,400	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	bis(2-Chloroethyl) ether			bis(2-Chloroisopropyl) ether			bis(2-Ethylhexyl) phthalate			4-Bromophenyl phenyl ether			Butyl benzyl phthalate [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	1.30E+04	1.40E+03		ND	--	--	1.10E+02	3.80E+02	J
NMED Residential SSL Concentration [d]					2.68E+03			9.15E+04			3.47E+05			NE			2.60E+05		
NMED Industrial SSL Concentration [d]					1.42E+04			4.54E+05			1.37E+06			NE			9.10E+05		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	360	U	ND	360	U	68	360	J	ND	360	U	ND	360	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	360	U	ND	360	U	ND	780	U	ND	360	U	ND	360	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	410	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	370	U	ND	370	U	ND	950	U	ND	370	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	370	U	ND	370	U	ND	600	U	ND	370	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	370	U	ND	370	U	ND	590	U	ND	370	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	360	U	ND	360	U	ND	540	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	bis(2-Chloroethyl) ether			bis(2-Chloroisopropyl) ether			bis(2-Ethylhexyl) phthalate			4-Bromophenyl phenyl ether			Butyl benzyl phthalate [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	1.30E+04	1.40E+03		ND	--	--	1.10E+02	3.80E+02	J
NMED Residential SSL Concentration [d]					2.68E+03			9.15E+04			3.47E+05			NE			2.60E+05		
NMED Industrial SSL Concentration [d]					1.42E+04			4.54E+05			1.37E+06			NE			9.10E+05		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	370	U	ND	370	U	450	370		ND	370	U	ND	370	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	360	U	ND	360	U	300	360	J	ND	360	U	ND	360	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	360	U	ND	360	U	290	360	J	ND	360	U	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	360	U	ND	360	U	290	360	J	ND	360	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	360	U	ND	360	U	310	360	J	ND	360	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	360	U	ND	360	U	550	360		ND	360	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	360	U	ND	360	U	270	360	J	ND	360	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	360	U	ND	360	U	710	360		ND	360	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	360	U	ND	360	U	550	360		ND	360	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	360	U	ND	360	U	830	360		ND	360	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	350	U	ND	350	U	640	350		ND	350	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	370	U	ND	370	U	350	370	J	ND	370	U	ND	370	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	360	U	ND	360	U	44	360	J	ND	360	U	ND	360	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	370	U	ND	370	U	170	370	J	ND	370	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	370	U	ND	370	U	40	370	J	ND	370	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	360	U	ND	360	U	190	360	J	ND	360	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	360	U	ND	360	U	54	360	J	ND	360	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	360	U	ND	360	U	44	360	J	ND	360	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	370	U	ND	370	U	41	370	J	ND	370	U	ND	370	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	370	U	ND	370	U	4700	370		ND	370	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	420	U	ND	420	U	ND	420	U	ND	420	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	360	U	ND	360	U	90	360	J	ND	360	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	bis(2-Chloroethyl) ether			bis(2-Chloroisopropyl) ether			bis(2-Ethylhexyl) phthalate			4-Bromophenyl phenyl ether			Butyl benzyl phthalate [e]		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	1.30E+04	1.40E+03		ND	--	--	1.10E+02	3.80E+02	J
NMED Residential SSL Concentration [d]					2.68E+03			9.15E+04			3.47E+05			NE			2.60E+05		
NMED Industrial SSL Concentration [d]					1.42E+04			4.54E+05			1.37E+06			NE			9.10E+05		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*0*	*of*	*106*	*0*	*of*	*106*	*25*	*of*	*106*	*0*	*of*	*106*	*2*	*of*	*106*

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Carbazole			4-Chloro-3-methylphenol (Cresol, p-chloro-m-) [e]			4-Chloroaniline [e]			2-Chloronaphthalene			2-Chlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					1.50E+03	1.40E+03		ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			6.10E+06			2.40E+03			6.26E+06			3.91E+05		
NMED Industrial SSL Concentration [d]					NE			6.20E+07			8.60E+03			9.08E+07			5.68E+06		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	400	U	ND	400	U	ND	400	U	ND	400	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	46	350	J	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	1500	1,400		ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Carbazole			4-Chloro-3-methylphenol (Cresol, p-chloro-m-) [e]			4-Chloroaniline [e]			2-Chloronaphthalene			2-Chlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					1.50E+03	1.40E+03		ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			6.10E+06			2.40E+03			6.26E+06			3.91E+05		
NMED Industrial SSL Concentration [d]					NE			6.20E+07			8.60E+03			9.08E+07			5.68E+06		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	340	U	ND	340	U	ND	340	U	ND	340	U	ND	340	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Carbazole			4-Chloro-3-methylphenol (Cresol, p-chloro-m-) [e]			4-Chloroaniline [e]			2-Chloronaphthalene			2-Chlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					1.50E+03	1.40E+03		ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			6.10E+06			2.40E+03			6.26E+06			3.91E+05		
NMED Industrial SSL Concentration [d]					NE			6.20E+07			8.60E+03			9.08E+07			5.68E+06		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	170	360	J	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	170	360	J	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	120	360	J	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Carbazole			4-Chloro-3-methylphenol (Cresol, p-chloro-m-) [e]			4-Chloroaniline [e]			2-Chloronaphthalene			2-Chlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					1.50E+03	1.40E+03		ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			6.10E+06			2.40E+03			6.26E+06			3.91E+05		
NMED Industrial SSL Concentration [d]					NE			6.20E+07			8.60E+03			9.08E+07			5.68E+06		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	100	370	J	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	98	370	J	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	45	360	J	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	420	U	ND	420	U	ND	420	U	ND	420	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Carbazole			4-Chloro-3-methylphenol (Cresol, p-chloro-m-) [e]			4-Chloroaniline [e]			2-Chloronaphthalene			2-Chlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					1.50E+03	1.40E+03		ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			6.10E+06			2.40E+03			6.26E+06			3.91E+05		
NMED Industrial SSL Concentration [d]					NE			6.20E+07			8.60E+03			9.08E+07			5.68E+06		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*8*	*of 106*		*0*	*of 106*		*0*	*of 106*		*0*	*of 106*		*0*	*of 106*	

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	4-Chlorophenyl phenyl ether			Chrysene			Di-n-butyl phthalate [e]			Di-n-octyl phthalate [e]			Dibenz(a,h)anthracene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	1.40E+04	1.40E+03		1.90E+02	3.80E+02	J	3.10E+02	3.70E+02	J	3.10E+02	2.20E+01	
NMED Residential SSL Concentration [d]					NE			1.48E+05			6.10E+06			6.10E+05			1.48E+02		
NMED Industrial SSL Concentration [d]					NE			2.34E+06			6.20E+07			6.20E+06			2.34E+03		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	380	U	ND	380	U	130	380	J	ND	380	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	400	U	ND	400	U	ND	400	U	ND	400	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	350	U	720	350		ND	350	U	ND	350	U	ND	350	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	370	U	210	370	J	ND	370	U	ND	370	U	ND	370	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	1,400	U	14,000	1,400		ND	1,400	U	ND	1,400	U	ND	1,400	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	4-Chlorophenyl phenyl ether			Chrysene			Di-n-butyl phthalate [e]			Di-n-octyl phthalate [e]			Dibenz(a,h)anthracene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	1.40E+04	1.40E+03		1.90E+02	3.80E+02	J	3.10E+02	3.70E+02	J	3.10E+02	2.20E+01	
NMED Residential SSL Concentration [d]					NE			1.48E+05			6.10E+06			6.10E+05			1.48E+02		
NMED Industrial SSL Concentration [d]					NE			2.34E+06			6.20E+07			6.20E+06			2.34E+03		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	340	U	300	340	J	ND	340	U	ND	340	U	ND	340	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	350	U	240	350	J	ND	350	J	ND	350	U	ND	350	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	1,400	U	260	1,400	J	ND	1,400	U	ND	1,400	U	ND	1,400	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	4-Chlorophenyl phenyl ether			Chrysene			Di-n-butyl phthalate [e]			Di-n-octyl phthalate [e]			Dibenz(a,h)anthracene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	1.40E+04	1.40E+03		1.90E+02	3.80E+02	J	3.10E+02	3.70E+02	J	3.10E+02	2.20E+01	
NMED Residential SSL Concentration [d]					NE			1.48E+05			6.10E+06			6.10E+05			1.48E+02		
NMED Industrial SSL Concentration [d]					NE			2.34E+06			6.20E+07			6.20E+06			2.34E+03		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	360	U	1500	360		ND	360	U	ND	360	U	280	360	J
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	360	U	1500	360		ND	360	U	ND	360	U	310	360	J
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	360	U	1000	360		ND	360	U	ND	360	U	120	360	J
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	360	U	190	360	J	ND	360	U	ND	360	U	43	360	J
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	360	UJ	160	360	J	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	360	UJ	150	360	J	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	370	U	ND	370	U	77	370	J	ND	370	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	380	U	ND	380	U	58	380	J	ND	380	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	4-Chlorophenyl phenyl ether			Chrysene			Di-n-butyl phthalate [e]			Di-n-octyl phthalate [e]			Dibenz(a,h)anthracene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	1.40E+04	1.40E+03		1.90E+02	3.80E+02	J	3.10E+02	3.70E+02	J	3.10E+02	2.20E+01	
NMED Residential SSL Concentration [d]					NE			1.48E+05			6.10E+06			6.10E+05			1.48E+02		
NMED Industrial SSL Concentration [d]					NE			2.34E+06			6.20E+07			6.20E+06			2.34E+03		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	370	U	820	370		ND	370	U	ND	370	U	150	370	J
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	360	U	170	360	J	ND	360	U	ND	360	U	43	360	J
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	370	U	710	370		ND	370	U	ND	370	U	140	370	J
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	360	U	46	360	J	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	350	U	59	350	J	ND	350	U	64	350	J	ND	350	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	370	U	140	370	J	190	370	J	ND	370	U	ND	370	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	380	U	ND	380	U	170	380	J	ND	380	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	360	U	ND	360	U	170	360	J	ND	360	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	370	U	ND	370	U	130	370	J	310	370	J	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	420	U	ND	420	U	ND	420	U	ND	420	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	360	U	ND	360	U	160	360	J	ND	360	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	360	U	ND	360	U	160	360	J	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	4-Chlorophenyl phenyl ether			Chrysene			Di-n-butyl phthalate [e]			Di-n-octyl phthalate [e]			Dibenz(a,h)anthracene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	1.40E+04	1.40E+03		1.90E+02	3.80E+02	J	3.10E+02	3.70E+02	J	3.10E+02	2.20E+01	
NMED Residential SSL Concentration [d]					NE			1.48E+05			6.10E+06			6.10E+05			1.48E+02		
NMED Industrial SSL Concentration [d]					NE			2.34E+06			6.20E+07			6.20E+06			2.34E+03		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			3.3	12	J	*not sampled*			*not sampled*			ND	23	U
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			29	12		*not sampled*			*not sampled*			41	24	
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			4.0	11	J	*not sampled*			*not sampled*			ND	23	U
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			ND	12	U	*not sampled*			*not sampled*			ND	23	U
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			1.7	11	J	*not sampled*			*not sampled*			ND	23	U
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			8.4	11	J	*not sampled*			*not sampled*			ND	23	U
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			ND	12	U	*not sampled*			*not sampled*			ND	23	U
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			ND	12	U	*not sampled*			*not sampled*			ND	23	U
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			8.6	12	J	*not sampled*			*not sampled*			ND	24	U
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			15	12		*not sampled*			*not sampled*			ND	23	U
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			89	11		*not sampled*			*not sampled*			45	22	
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			5.0	11	J	*not sampled*			*not sampled*			ND	22	U
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			150	11		*not sampled*			*not sampled*			98	22	
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			180	11		*not sampled*			*not sampled*			94	21	
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			210	11		*not sampled*			*not sampled*			140	22	
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			10	11	J	*not sampled*			*not sampled*			ND	22	U
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			54	12		*not sampled*			*not sampled*			31	23	
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			77	11		*not sampled*			*not sampled*			47	21	
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			53	11		*not sampled*			*not sampled*			36	21	
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			110	11		*not sampled*			*not sampled*			110	22	
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			3.0	11	J	*not sampled*			*not sampled*			ND	22	U
Frequency of Detection					*0*	*of*	*106*	*36*	*of*	*127*	*10*	*of*	*106*	*2*	*of*	*106*	*16*	*of*	*127*

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Dibenzofuran [e]			1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2,4-Dichlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			2.31E+06			NE			3.17E+04			1.83E+05		
NMED Industrial SSL Concentration [d]					NE			1.40E+07			NE			1.77E+05			2.05E+06		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	400	U	ND	400	U	ND	400	U	ND	400	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Dibenzofuran [e]			1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2,4-Dichlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			2.31E+06			NE			3.17E+04			1.83E+05		
NMED Industrial SSL Concentration [d]					NE			1.40E+07			NE			1.77E+05			2.05E+06		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	340	U	ND	340	U	ND	340	U	ND	340	U	ND	340	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Dibenzofuran [e]			1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2,4-Dichlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			2.31E+06			NE			3.17E+04			1.83E+05		
NMED Industrial SSL Concentration [d]					NE			1.40E+07			NE			1.77E+05			2.05E+06		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	UJ	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	UJ	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	UJ	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	UJ	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Dibenzofuran [e]			1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2,4-Dichlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			2.31E+06			NE			3.17E+04			1.83E+05		
NMED Industrial SSL Concentration [d]					NE			1.40E+07			NE			1.77E+05			2.05E+06		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	420	U	ND	420	U	ND	420	U	ND	420	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Dibenzofuran [e]			1,2-Dichlorobenzene			1,3-Dichlorobenzene			1,4-Dichlorobenzene			2,4-Dichlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					NE			2.31E+06			NE			3.17E+04			1.83E+05		
NMED Industrial SSL Concentration [d]					NE			1.40E+07			NE			1.77E+05			2.05E+06		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*0*	*of*	*106*	*0*	*of*	*106*	*0*	*of*	*106*	*0*	*of*	*106*	*0*	*of*	*106*

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	3,3'-Dichlorobenzidine			Diethyl phthalate			2,4-Dimethylphenol			Dimethyl phthalate			4,6-Dinitro-2-methylphenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	4.60E+01	3.60E+02	J	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					1.08E+04			4.89E+07			1.22E+06			6.11E+08			4.89E+03		
NMED Industrial SSL Concentration [d]					4.26E+04			5.47E+08			1.37E+07			6.84E+09			5.47E+04		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	760	U	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	760	U	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	760	U	ND	380	U	ND	380	U	ND	380	U	ND	1,900	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	800	U	ND	400	U	ND	400	U	ND	400	U	ND	1,900	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	690	U	ND	350	U	ND	350	U	ND	350	U	ND	1,700	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	2,800	U	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	6,700	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	760	U	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	3,3'-Dichlorobenzidine			Diethyl phthalate			2,4-Dimethylphenol			Dimethyl phthalate			4,6-Dinitro-2-methylphenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	4.60E+01	3.60E+02	J	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					1.08E+04			4.89E+07			1.22E+06			6.11E+08			4.89E+03		
NMED Industrial SSL Concentration [d]					4.26E+04			5.47E+08			1.37E+07			6.84E+09			5.47E+04		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	690	U	ND	340	U	ND	340	U	ND	340	U	ND	1,700	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	690	U	ND	350	U	ND	350	U	ND	350	U	ND	1,700	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	2,800	U	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	6,800	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	74,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	180,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	760	U	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	750	U	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	76,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	180,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	780	U	ND	390	U	ND	390	U	ND	390	U	ND	1,900	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	780	U	ND	390	U	ND	390	U	ND	390	U	ND	1,900	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	3,3'-Dichlorobenzidine			Diethyl phthalate			2,4-Dimethylphenol			Dimethyl phthalate			4,6-Dinitro-2-methylphenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	4.60E+01	3.60E+02	J	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					1.08E+04			4.89E+07			1.22E+06			6.11E+08			4.89E+03		
NMED Industrial SSL Concentration [d]					4.26E+04			5.47E+08			1.37E+07			6.84E+09			5.47E+04		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	710	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	700	U	ND	350	U	ND	350	U	ND	350	U	ND	1,700	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	750	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	750	U	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	750	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	750	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	760	U	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	720	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	1,800	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	720	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	1,800	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	740	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	750	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	1,800	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	750	U	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	730	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	1,800	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	770	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	1,900	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	770	U	ND	380	U	ND	380	U	ND	380	U	ND	1,900	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	740	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	760	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	1,800	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	760	U	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	730	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	750	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	750	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	730	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	730	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	1,800	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	3,3'-Dichlorobenzidine			Diethyl phthalate			2,4-Dimethylphenol			Dimethyl phthalate			4,6-Dinitro-2-methylphenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	4.60E+01	3.60E+02	J	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					1.08E+04			4.89E+07			1.22E+06			6.11E+08			4.89E+03		
NMED Industrial SSL Concentration [d]					4.26E+04			5.47E+08			1.37E+07			6.84E+09			5.47E+04		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	710	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	710	U	ND	350	U	ND	350	U	ND	350	U	ND	1,700	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	700	U	ND	350	U	ND	350	U	ND	350	U	ND	1,700	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	710	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	760	U	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	740	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	840	U	ND	420	U	ND	420	U	ND	420	U	ND	2,000	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	720	U	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	730	U	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	710	U	ND	350	U	ND	350	U	ND	350	U	ND	1,700	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	720	U	46	360	J	ND	360	U	ND	360	U	ND	1,700	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	730	U	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	3,3'-Dichlorobenzidine			Diethyl phthalate			2,4-Dimethylphenol			Dimethyl phthalate			4,6-Dinitro-2-methylphenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	4.60E+01	3.60E+02	J	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					1.08E+04			4.89E+07			1.22E+06			6.11E+08			4.89E+03		
NMED Industrial SSL Concentration [d]					4.26E+04			5.47E+08			1.37E+07			6.84E+09			5.47E+04		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*0*	*of*	*106*	*1*	*of*	*106*	*0*	*of*	*106*	*0*	*of*	*106*	*0*	*of*	*106*

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2,4-Dinitrophenol			2,4-Dinitrotoluene			2,6-Dinitrotoluene			Fluoranthene			Fluorene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	1.70E+04	1.40E+03		2.90E+02	1.40E+03	J
NMED Residential SSL Concentration [d]					1.22E+05			1.57E+04			6.11E+04			2.29E+06			2.29E+06		
NMED Industrial SSL Concentration [d]					1.37E+06			6.18E+04			6.84E+05			2.44E+07			2.44E+07		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	1,800	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	1,800	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	1,900	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	1,900	U	ND	400	U	ND	400	U	ND	400	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	1,700	U	ND	350	U	ND	350	U	1500	350		ND	350	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	1,800	U	ND	370	U	ND	370	U	300	370	J	ND	370	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	6,700	U	ND	1,400	U	ND	1,400	U	17,000	1,400		290	1,400	J
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	1,800	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2,4-Dinitrophenol			2,4-Dinitrotoluene			2,6-Dinitrotoluene			Fluoranthene			Fluorene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	1.70E+04	1.40E+03		2.90E+02	1.40E+03	J
NMED Residential SSL Concentration [d]					1.22E+05			1.57E+04			6.11E+04			2.29E+06			2.29E+06		
NMED Industrial SSL Concentration [d]					1.37E+06			6.18E+04			6.84E+05			2.44E+07			2.44E+07		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	1,700	U	ND	340	U	ND	340	U	570	340		ND	340	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	1,700	U	ND	350	U	ND	350	U	470	350		ND	350	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	6,800	U	ND	1,400	U	ND	1,400	U	440	1,400	J	ND	1,400	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	180,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	180,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	1,900	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	1,900	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2,4-Dinitrophenol			2,4-Dinitrotoluene			2,6-Dinitrotoluene			Fluoranthene			Fluorene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	1.70E+04	1.40E+03		2.90E+02	1.40E+03	J
NMED Residential SSL Concentration [d]					1.22E+05			1.57E+04			6.11E+04			2.29E+06			2.29E+06		
NMED Industrial SSL Concentration [d]					1.37E+06			6.18E+04			6.84E+05			2.44E+07			2.44E+07		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	1,700	U	ND	360	U	ND	360	U	2,800	360		ND	360	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	1,700	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	1,700	U	ND	360	U	ND	360	U	3,000	360		44	360	J
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	1,800	U	ND	360	U	ND	360	U	1800	360		ND	360	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	1,800	U	ND	360	U	ND	360	U	310	360	J	ND	360	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	1,800	UJ	ND	360	UJ	ND	360	UJ	310	360	J	ND	360	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	1,800	UJ	ND	360	UJ	ND	360	UJ	310	360	J	ND	360	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	1,800	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	1,800	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	1,800	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	1,900	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	1,900	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	1,800	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	1,800	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	1,800	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	1,800	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	1,800	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	1,800	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2,4-Dinitrophenol			2,4-Dinitrotoluene			2,6-Dinitrotoluene			Fluoranthene			Fluorene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	1.70E+04	1.40E+03		2.90E+02	1.40E+03	J
NMED Residential SSL Concentration [d]					1.22E+05			1.57E+04			6.11E+04			2.29E+06			2.29E+06		
NMED Industrial SSL Concentration [d]					1.37E+06			6.18E+04			6.84E+05			2.44E+07			2.44E+07		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	1,400	370		ND	370	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	330	360	J	ND	360	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	50	360	J	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	1,700	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	1,200	370		ND	370	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	860	360		ND	360	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	1,700	U	ND	350	U	ND	350	U	110	350	J	ND	350	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	1,800	U	ND	370	U	ND	370	U	270	370	J	ND	370	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	2,000	U	ND	420	U	ND	420	U	ND	420	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	1,700	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2,4-Dinitrophenol			2,4-Dinitrotoluene			2,6-Dinitrotoluene			Fluoranthene			Fluorene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	1.70E+04	1.40E+03		2.90E+02	1.40E+03	J
NMED Residential SSL Concentration [d]					1.22E+05			1.57E+04			6.11E+04			2.29E+06			2.29E+06		
NMED Industrial SSL Concentration [d]					1.37E+06			6.18E+04			6.84E+05			2.44E+07			2.44E+07		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			ND	23	U	ND	23	U
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			58	24		ND	24	U
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			ND	23	U	ND	23	U
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			ND	23	U	ND	23	U
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			ND	23	U	ND	23	U
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			33	23		ND	23	U
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			ND	23	U	ND	23	U
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			ND	23	U	ND	23	U
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			32	24		ND	24	U
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			42	23		ND	23	U
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			250	22		ND	22	U
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			14	22	J	ND	22	U
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			470	22		ND	22	U
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			510	21		ND	21	U
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			650	22E		ND	22	U
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			30	22		ND	22	U
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			160	23		ND	23	U
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			200	21		ND	21	U
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			170	21		ND	21	U
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			ND	22	U	ND	22	U
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			ND	22	U	ND	22	U
Frequency of Detection					*0*	*of*	*106*	*0*	*of*	*106*	*0*	*of*	*106*	*32*	*of*	*127*	*2*	*of*	*127*

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Hexachlorobenzene			Hexachlorobutadiene			Hexachlorocyclopentadiene			Hexachloroethane			Indeno(1,2,3-cd)pyrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	5.10E+03	1.40E+03	
NMED Residential SSL Concentration [d]					3.04E+03			6.11E+04			3.67E+05			4.28E+04			1.48E+03		
NMED Industrial SSL Concentration [d]					1.20E+04			2.46E+05			4.10E+06			4.79E+05			2.34E+04		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	400	U	ND	400	U	ND	400	U	ND	400	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	350	U	ND	350	U	ND	350	U	ND	350	U	390	350	
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	68	370	J
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U	5,100	1,400	
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Hexachlorobenzene			Hexachlorobutadiene			Hexachlorocyclopentadiene			Hexachloroethane			Indeno(1,2,3-cd)pyrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	5.10E+03	1.40E+03	
NMED Residential SSL Concentration [d]					3.04E+03			6.11E+04			3.67E+05			4.28E+04			1.48E+03		
NMED Industrial SSL Concentration [d]					1.20E+04			2.46E+05			4.10E+06			4.79E+05			2.34E+04		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	340	U	ND	340	U	ND	340	U	ND	340	U	160	340	J
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	350	U	ND	350	U	ND	350	U	ND	350	U	93	350	J
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Hexachlorobenzene			Hexachlorobutadiene			Hexachlorocyclopentadiene			Hexachloroethane			Indeno(1,2,3-cd)pyrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	5.10E+03	1.40E+03	
NMED Residential SSL Concentration [d]					3.04E+03			6.11E+04			3.67E+05			4.28E+04			1.48E+03		
NMED Industrial SSL Concentration [d]					1.20E+04			2.46E+05			4.10E+06			4.79E+05			2.34E+04		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	700	360	
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	800	360	
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	570	360	
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	88	360	J
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Hexachlorobenzene			Hexachlorobutadiene			Hexachlorocyclopentadiene			Hexachloroethane			Indeno(1,2,3-cd)pyrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	5.10E+03	1.40E+03	
NMED Residential SSL Concentration [d]					3.04E+03			6.11E+04			3.67E+05			4.28E+04			1.48E+03		
NMED Industrial SSL Concentration [d]					1.20E+04			2.46E+05			4.10E+06			4.79E+05			2.34E+04		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	360	370	J
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	94	360	J
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	340	370	J
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	260	360	J
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	83	370	J
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	420	U	ND	420	U	ND	420	U	ND	420	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Hexachlorobenzene			Hexachlorobutadiene			Hexachlorocyclopentadiene			Hexachloroethane			Indeno(1,2,3-cd)pyrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	5.10E+03	1.40E+03	
NMED Residential SSL Concentration [d]					3.04E+03			6.11E+04			3.67E+05			4.28E+04			1.48E+03		
NMED Industrial SSL Concentration [d]					1.20E+04			2.46E+05			4.10E+06			4.79E+05			2.34E+04		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			3.1	12	J
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			62	12	
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			9.9	11	J
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	12	U
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	11	U
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			4.2	11	J
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	12	U
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	12	U
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			6.2	12	J
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			12	12	
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			78	11	
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			4.3	11	J
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			160	11	
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			160	11	
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			220	11	
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			11	11	
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			52	12	
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			79	11	
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			60	11	
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			160	11	
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			7	11	J
Frequency of Detection					*0*	*of*	*106*	*0*	*of*	*106*	*0*	*of*	*106*	*0*	*of*	*106*	*31*	*of*	*127*

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Isophorone			2-Methylnaphthalene [e]			2-Methylphenol (o-cresol) [e]			3/4-Methylphenol			Naphthalene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	4.00E+04	3.50E+02	J	ND	--	--	ND	--	--	2.10E+04	3.80E+04	J
NMED Residential SSL Concentration [d]					5.12E+06			2.30E+05			3.10E+06			NE			4.30E+04		
NMED Industrial SSL Concentration [d]					1.37E+08			2.20E+06			3.10E+07			NE			2.41E+05		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	400	U	ND	400	U	ND	400	U	ND	400	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Isophorone			2-Methylnaphthalene [e]			2-Methylphenol (o-cresol) [e]			3/4-Methylphenol			Naphthalene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	4.00E+04	3.50E+02	J	ND	--	--	ND	--	--	2.10E+04	3.80E+04	J
NMED Residential SSL Concentration [d]					5.12E+06			2.30E+05			3.10E+06			NE			4.30E+04		
NMED Industrial SSL Concentration [d]					1.37E+08			2.20E+06			3.10E+07			NE			2.41E+05		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	340	U	ND	340	U	ND	340	U	ND	340	U	ND	340	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	350	U	250	350	J	ND	350	U	ND	350	U	ND	350	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U	ND	1,400	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	37,000	U	4,900	37,000	J	ND	37,000	U	ND	37,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	38,000	U	40,000	38,000		ND	38,000	U	ND	38,000	U	21,000	38,000	J
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Isophorone			2-Methylnaphthalene [e]			2-Methylphenol (o-cresol) [e]			3/4-Methylphenol			Naphthalene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	4.00E+04	3.50E+02	J	ND	--	--	ND	--	--	2.10E+04	3.80E+04	J
NMED Residential SSL Concentration [d]					5.12E+06			2.30E+05			3.10E+06			NE			4.30E+04		
NMED Industrial SSL Concentration [d]					1.37E+08			2.20E+06			3.10E+07			NE			2.41E+05		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Isophorone			2-Methylnaphthalene [e]			2-Methylphenol (o-cresol) [e]			3/4-Methylphenol			Naphthalene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	4.00E+04	3.50E+02	J	ND	--	--	ND	--	--	2.10E+04	3.80E+04	J
NMED Residential SSL Concentration [d]					5.12E+06			2.30E+05			3.10E+06			NE			4.30E+04		
NMED Industrial SSL Concentration [d]					1.37E+08			2.20E+06			3.10E+07			NE			2.41E+05		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	420	U	ND	420	U	ND	420	U	ND	420	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Isophorone			2-Methylnaphthalene [e]			2-Methylphenol (o-cresol) [e]			3/4-Methylphenol			Naphthalene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	4.00E+04	3.50E+02	J	ND	--	--	ND	--	--	2.10E+04	3.80E+04	J
NMED Residential SSL Concentration [d]					5.12E+06			2.30E+05			3.10E+06			NE			4.30E+04		
NMED Industrial SSL Concentration [d]					1.37E+08			2.20E+06			3.10E+07			NE			2.41E+05		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	120	U
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	110	U
Frequency of Detection					*0*	*of 106*		*3*	*of 106*		*0*	*of 106*		*0*	*of 106*		*1*	*of 127*	

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2-Nitroaniline [e]			3-Nitroaniline			4-Nitroaniline [e]			Nitrobenzene			2-Nitrophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					6.10E+05			NE			2.40E+04			5.35E+04			NE		
NMED Industrial SSL Concentration [d]					6.00E+06			NE			8.60E+05			3.00E+05			NE		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	1,900	U	ND	1,900	U	ND	1,900	U	ND	380	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	1,900	U	ND	1,900	U	ND	1,900	U	ND	400	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	350	U	ND	350	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	6,700	U	ND	6,700	U	ND	6,700	U	ND	1,400	U	ND	1,400	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2-Nitroaniline [e]			3-Nitroaniline			4-Nitroaniline [e]			Nitrobenzene			2-Nitrophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					6.10E+05			NE			2.40E+04			5.35E+04			NE		
NMED Industrial SSL Concentration [d]					6.00E+06			NE			8.60E+05			3.00E+05			NE		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	340	U	ND	340	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	350	U	ND	350	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	6,800	U	ND	6,800	U	ND	6,800	U	ND	1,400	U	ND	1,400	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	180,000	U	*ND*	180,000	U	ND	180,000	U	ND	37,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	1,800	U	*ND*	1,800	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	1,800	U	*ND*	1,800	U	ND	1,800	U	ND	380	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	180,000	U	ND	180,000	U	ND	180,000	U	ND	38,000	U	ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	1,900	U	ND	1,900	U	ND	1,900	U	ND	390	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	1,900	U	ND	1,900	U	ND	1,900	U	ND	390	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2-Nitroaniline [e]			3-Nitroaniline			4-Nitroaniline [e]			Nitrobenzene			2-Nitrophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					6.10E+05			NE			2.40E+04			5.35E+04			NE		
NMED Industrial SSL Concentration [d]					6.00E+06			NE			8.60E+05			3.00E+05			NE		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	350	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	1,800	UJ	ND	1,800	UJ	ND	1,800	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	1,800	UJ	ND	1,800	UJ	ND	1,800	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	1,800	UJ	ND	1,800	UJ	ND	1,800	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	1,800	UJ	ND	1,800	UJ	ND	1,800	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	1,800	UJ	ND	1,800	UJ	ND	1,800	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	1,900	UJ	ND	1,900	UJ	ND	1,900	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	1,900	U	ND	1,900	U	ND	1,900	U	ND	380	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	1,800	UJ	ND	1,800	UJ	ND	1,800	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	1,800	UJ	ND	1,800	UJ	ND	1,800	UJ	ND	380	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	1,800	UJ	ND	1,800	UJ	ND	1,800	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	1,800	UJ	ND	1,800	UJ	ND	1,800	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	1,800	UJ	ND	1,800	UJ	ND	1,800	UJ	ND	370	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	1,800	UJ	ND	1,800	UJ	ND	1,800	UJ	ND	360	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2-Nitroaniline [e]			3-Nitroaniline			4-Nitroaniline [e]			Nitrobenzene			2-Nitrophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					6.10E+05			NE			2.40E+04			5.35E+04			NE		
NMED Industrial SSL Concentration [d]					6.00E+06			NE			8.60E+05			3.00E+05			NE		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	350	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	350	U	ND	350	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	380	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	2,000	U	ND	2,000	U	ND	2,000	U	ND	420	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	370	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	350	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	1,700	U	ND	1,700	U	ND	1,700	U	ND	360	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	1,800	U	ND	1,800	U	ND	1,800	U	ND	360	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	2-Nitroaniline [e]			3-Nitroaniline			4-Nitroaniline [e]			Nitrobenzene			2-Nitrophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					6.10E+05			NE			2.40E+04			5.35E+04			NE		
NMED Industrial SSL Concentration [d]					6.00E+06			NE			8.60E+05			3.00E+05			NE		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*0*	*of 106*		*0*	*of 106*		*0*	*of 106*		*0*	*of 106*		*0*	*of 106*	

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	4-Nitrophenol			N-Nitroso-di-n-propylamine [e]			N-Nitrosodiphenylamine			Pentachlorophenol			Phenanthrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	8.10E+03	1.40E+03	
NMED Residential SSL Concentration [d]					NE			6.90E+01			9.93E+05			8.94E+03			1.83E+06		
NMED Industrial SSL Concentration [d]					NE			2.50E+02			3.91E+06			3.00E+04			2.05E+07		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	1,800	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	1,800	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	1,900	U	ND	380	U	ND	380	U	ND	1,900	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	1,900	U	ND	400	U	ND	400	U	ND	1,900	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	1,700	U	ND	350	U	ND	350	U	ND	1,700	U	570	350	
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	120	370	J
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	6,700	U	ND	1,400	U	ND	1,400	U	ND	6,700	U	8100	1,400	
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	1,800	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	4-Nitrophenol			N-Nitroso-di-n-propylamine [e]			N-Nitrosodiphenylamine			Pentachlorophenol			Phenanthrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	8.10E+03	1.40E+03	
NMED Residential SSL Concentration [d]					NE			6.90E+01			9.93E+05			8.94E+03			1.83E+06		
NMED Industrial SSL Concentration [d]					NE			2.50E+02			3.91E+06			3.00E+04			2.05E+07		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	1,700	U	ND	340	U	ND	340	U	ND	1,700	U	210	340	J
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	1,700	U	ND	350	U	ND	350	U	ND	1,700	U	190	350	J
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	6,800	U	ND	1,400	U	ND	1,400	U	ND	6,800	U	190	1,400	J
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	*ND*	180,000	U	ND	37,000	U	ND	37,000	U	ND	180,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	*ND*	1,800	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	*ND*	1,800	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	180,000	U	ND	38,000	U	ND	38,000	U	ND	180,000	U	ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	1,900	U	ND	390	U	ND	390	U	ND	1,900	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	1,900	U	ND	390	U	ND	390	U	ND	1,900	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	4-Nitrophenol			N-Nitroso-di-n-propylamine [e]			N-Nitrosodiphenylamine			Pentachlorophenol			Phenanthrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	8.10E+03	1.40E+03	
NMED Residential SSL Concentration [d]					NE			6.90E+01			9.93E+05			8.94E+03			1.83E+06		
NMED Industrial SSL Concentration [d]					NE			2.50E+02			3.91E+06			3.00E+04			2.05E+07		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	1100	360	
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	1,700	U	ND	350	U	ND	350	U	ND	1,700	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	1200	360	
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	880	360	
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	110	360	J
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	1,800	UJ	ND	360	UJ	ND	360	UJ	ND	1,800	UJ	100	360	J
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	1,800	UJ	ND	360	UJ	ND	360	UJ	ND	1,800	UJ	100	360	J
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	1,800	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	1,800	UJ	ND	380	UJ	ND	380	UJ	ND	1,800	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	1,800	UJ	ND	360	UJ	ND	360	UJ	ND	1,800	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	1,900	UJ	ND	380	UJ	ND	380	UJ	ND	1,900	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	1,900	U	ND	380	U	ND	380	U	ND	1,900	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	1,800	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	1,800	UJ	ND	380	UJ	ND	380	UJ	ND	1,800	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	1,800	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	1,800	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	1,800	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	1,800	UJ	ND	360	UJ	ND	360	UJ	ND	1,800	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	4-Nitrophenol			N-Nitroso-di-n-propylamine [e]			N-Nitrosodiphenylamine			Pentachlorophenol			Phenanthrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	8.10E+03	1.40E+03	
NMED Residential SSL Concentration [d]					NE			6.90E+01			9.93E+05			8.94E+03			1.83E+06		
NMED Industrial SSL Concentration [d]					NE			2.50E+02			3.91E+06			3.00E+04			2.05E+07		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	570	370	
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	160	360	J
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	1,700	U	ND	350	U	ND	350	U	ND	1,700	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	530	370	
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	380	360	
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	1,700	U	ND	350	U	ND	350	U	ND	1,700	U	53	350	J
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	120	370	J
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	1,800	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	2,000	U	ND	420	U	ND	420	U	ND	2,000	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	1,800	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	1,700	U	ND	350	U	ND	350	U	ND	1,700	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	1,700	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	1,800	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	4-Nitrophenol			N-Nitroso-di-n-propylamine [e]			N-Nitrosodiphenylamine			Pentachlorophenol			Phenanthrene		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	ND	--	--	ND	--	--	ND	--	--	8.10E+03	1.40E+03	
NMED Residential SSL Concentration [d]					NE			6.90E+01			9.93E+05			8.94E+03			1.83E+06		
NMED Industrial SSL Concentration [d]					NE			2.50E+02			3.91E+06			3.00E+04			2.05E+07		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	12	U
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			9.6	12	J
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	11	U
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	12	U
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	11	U
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			16	11	
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	12	U
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			2.9	12	J
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			8.8	12	J
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			8.9	12	J
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			52	11	
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	11	U
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			91	11	
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			120	11	
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			120	11	
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			9.2	11	J
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			40	12	
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			62	11	
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			39	11	
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	11	U
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			*not sampled*			*not sampled*			*not sampled*			ND	11	U
Frequency of Detection					*0*	*of*	*106*	*0*	*of*	*106*	*0*	*of*	*106*	*0*	*of*	*106*	*31*	*of*	*127*

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Phenol			Pyrene			1,2,4-Trichlorobenzene			2,4,5-Trichlorophenol			2,4,6-Trichlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	1.70E+04	1.40E+03		ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					1.83E+07			1.72E+06			7.30E+04			6.11E+06			6.11E+04		
NMED Industrial SSL Concentration [d]					2.05E+08			1.83E+07			3.67E+05			6.84E+07			6.84E+05		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-1271-0002	2	0313740004SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-1271-0008	8	0313740006SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	1,900	U	ND	380	U
	CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	400	U	ND	400	U	ND	400	U	ND	1,900	U	ND	400	U
	CAN127-1272-0004	4	0313740009SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	ND	350	U	1400	350		ND	350	U	ND	1,700	U	ND	350	U
	CAN127-1273-0002	2	0312160002SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	ND	370	U	230	370	J	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-1274-0002	2	0312770002SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-1274-0058	58	0312770010SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	ND	1,400	U	17,000	1,400		ND	1,400	U	ND	6,700	U	ND	1,400	U
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-1275-0004	4	0312770013SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Phenol			Pyrene			1,2,4-Trichlorobenzene			2,4,5-Trichlorophenol			2,4,6-Trichlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	1.70E+04	1.40E+03		ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					1.83E+07			1.72E+06			7.30E+04			6.11E+06			6.11E+04		
NMED Industrial SSL Concentration [d]					2.05E+08			1.83E+07			3.67E+05			6.84E+07			6.84E+05		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	ND	340	U	550	340		ND	340	U	ND	1,700	U	ND	340	U
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-1276-0028	28	0312150012SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	ND	350	U	440	350		ND	350	U	ND	1,700	U	ND	350	U
	CAN127-1277-0002	2	0311840010SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	1,400	U	360	1,400	J	ND	1,400	U	ND	6,800	U	ND	1,400	U
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-1278-0018	18	0311840006SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	*not sampled*			*not sampled*			*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	37,000	U	ND	37,000	U	ND	37,000	U	*ND*	180,000	U	ND	37,000	U
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	*ND*	1,800	U	ND	380	U
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	*ND*	1,800	U	ND	380	U
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	180,000	U	ND	38,000	U
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	1,900	U	ND	390	U
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	1,900	U	ND	390	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Phenol			Pyrene			1,2,4-Trichlorobenzene			2,4,5-Trichlorophenol			2,4,6-Trichlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	1.70E+04	1.40E+03		ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					1.83E+07			1.72E+06			7.30E+04			6.11E+06			6.11E+04		
NMED Industrial SSL Concentration [d]					2.05E+08			1.83E+07			3.67E+05			6.84E+07			6.84E+05		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	ND	360	U	2,300	360		ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	350	U	ND	350	U	ND	350	U	ND	1,700	U	ND	350	U
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	ND	360	U	2,200	360		ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	ND	360	U	1900	360		ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	ND	360	U	260	360	J	ND	360	UJ	ND	1,800	U	ND	360	U
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	ND	360	UJ	260	360	J	ND	360	UJ	ND	1,800	UJ	ND	360	UJ
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	ND	360	UJ	250	360	J	ND	360	UJ	ND	1,800	UJ	ND	360	UJ
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	1,800	UJ	ND	380	UJ
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	1,800	UJ	ND	360	UJ
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	360	U	ND	360	U	ND	360	UJ	ND	1,800	U	ND	360	U
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	1,900	UJ	ND	380	UJ
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	380	U	ND	380	U	ND	380	UJ	ND	1,900	U	ND	380	U
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	1,800	U	ND	370	U
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	1,800	UJ	ND	380	UJ
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	380	U	ND	380	U	ND	380	UJ	ND	1,800	U	ND	380	U
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	1,800	U	ND	370	U
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	1,800	U	ND	370	U
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	1,800	UJ	ND	370	UJ
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	1,800	U	ND	370	U
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	1,800	UJ	ND	360	UJ
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	360	U	ND	360	U	ND	360	UJ	ND	1,800	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Phenol			Pyrene			1,2,4-Trichlorobenzene			2,4,5-Trichlorophenol			2,4,6-Trichlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	1.70E+04	1.40E+03		ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					1.83E+07			1.72E+06			7.30E+04			6.11E+06			6.11E+04		
NMED Industrial SSL Concentration [d]					2.05E+08			1.83E+07			3.67E+05			6.84E+07			6.84E+05		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	370	U	1,300	370		ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	ND	360	U	290	360	J	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	360	U	41	360	J	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	1,700	U	ND	350	U
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	370	U	1,000	370		ND	370	U	ND	1,800	U	ND	370	U
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	ND	360	U	710	360		ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	350	U	77	350	J	ND	350	U	ND	1,700	U	ND	350	U
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	ND	370	U	260	370	J	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	380	U	ND	380	U	ND	380	U	ND	1,800	U	ND	380	U
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	420	U	ND	420	U	ND	420	U	ND	2,000	U	ND	420	U
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	1,800	U	ND	370	U
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	350	U	ND	350	U	ND	350	U	ND	1,700	U	ND	350	U
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,700	U	ND	360	U
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	1,800	U	ND	360	U

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Phenol			Pyrene			1,2,4-Trichlorobenzene			2,4,5-Trichlorophenol			2,4,6-Trichlorophenol		
					Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual	Result (ug/kg)	RL (ug/kg)	Qual
Maximum Detected Concentration					ND	--	--	1.70E+04	1.40E+03		ND	--	--	ND	--	--	ND	--	--
NMED Residential SSL Concentration [d]					1.83E+07			1.72E+06			7.30E+04			6.11E+06			6.11E+04		
NMED Industrial SSL Concentration [d]					2.05E+08			1.83E+07			3.67E+05			6.84E+07			6.84E+05		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			ND	12	U	*not sampled*			*not sampled*			*not sampled*		
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			57	12		*not sampled*			*not sampled*			*not sampled*		
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			5.4	11	J	*not sampled*			*not sampled*			*not sampled*		
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			ND	12	U	*not sampled*			*not sampled*			*not sampled*		
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			ND	11	U	*not sampled*			*not sampled*			*not sampled*		
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			25	11		*not sampled*			*not sampled*			*not sampled*		
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			ND	12	U	*not sampled*			*not sampled*			*not sampled*		
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			ND	12	U	*not sampled*			*not sampled*			*not sampled*		
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			17	12		*not sampled*			*not sampled*			*not sampled*		
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			32	12		*not sampled*			*not sampled*			*not sampled*		
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			170	11		*not sampled*			*not sampled*			*not sampled*		
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			6.8	11	J	*not sampled*			*not sampled*			*not sampled*		
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			330	11E		*not sampled*			*not sampled*			*not sampled*		
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			350	11E		*not sampled*			*not sampled*			*not sampled*		
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			450	11E		*not sampled*			*not sampled*			*not sampled*		
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			25	11		*not sampled*			*not sampled*			*not sampled*		
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			120	12		*not sampled*			*not sampled*			*not sampled*		
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			170	11		*not sampled*			*not sampled*			*not sampled*		
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			120	11		*not sampled*			*not sampled*			*not sampled*		
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			260	11		*not sampled*			*not sampled*			*not sampled*		
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			ND	11	U	*not sampled*			*not sampled*			*not sampled*		
Frequency of Detection					*0*	*of*	*106*	*34*	*of*	*127*	*0*	*of*	*106*	*0*	*of*	*106*	*0*	*of*	*106*

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Total Petroleum Hydrocarbons [f]			TPH-Diesel Range Organics [f]			TPH-Oil Range Organics [f]			TPH-Gasoline Range Organics [f]		
					Result (mg/kg)	RL	Qual	Result (mg/kg)	RL (mg/kg)	Qual	Result (mg/kg)	RL (mg/kg)	Qual	Result (mg/kg)	RL (mg/kg)	Qual
Maximum Detected Concentration					1.16E+04	8.39E+01		2.60E+01	1.20E+01		1.70E+01	2.40E+01	J	ND	--	--
NMED Residential SSL Concentration [d]					1.00E+03			1.00E+03			1.00E+03			1.00E+03		
NMED Industrial SSL Concentration [d]					1.00E+03			1.00E+03			1.00E+03			1.00E+03		
1271	CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	46.1	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0002	2	0313740004SA	9/23/1993	ND	46.1	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0004	4	0313740005SA	9/23/1993	46.6	46.2		*not sampled*			*not sampled*			*not sampled*		
	CAN127-1271-0008	8	0313740006SA	9/23/1993	48.6	45.7		*not sampled*			*not sampled*			*not sampled*		
1272	CAN127-1272-0000	0	0313740007SA	9/23/1993	93.2	46.3		*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0002	2	0313740008SA	9/23/1993	48.7	48.4		*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0004	4	0313740009SA	9/23/1993	50.1	47.1		*not sampled*			*not sampled*			*not sampled*		
	CAN127-1272-0008	8	0313740010SA	9/23/1993	ND	47.5	U	*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0000	0	0312160001SA	9/13/1993	66.8	41.9		*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0002	2	0312160002SA	9/13/1993	ND	43.6	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0004	4	0312160004SA	9/13/1993	ND	43.7	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	43.9	U	*not sampled*			*not sampled*			*not sampled*		
1273	CAN127-1273-0018	18	0312160005SA	9/13/1993	ND	44.8	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0028	28	0312160006SA	9/13/1993	ND	44.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0038	38	0312160007SA	9/13/1993	ND	44.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0048	48	0312160008SA	9/13/1993	ND	43.9	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1273-0058	58	0312160009SA	9/13/1993	ND	42.8	U	*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0000	0	0312770001SA	9/14/1993	253	44.3		*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0002	2	0312770002SA	9/14/1993	ND	44	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0004	4	0312770003SA	9/14/1993	ND	44.1	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0008	8	0312770004SA	9/14/1993	ND	45.3	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0018	18	0312770005SA	9/14/1993	ND	44	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0028	28	0312770007SA	9/14/1993	ND	44.7	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0038	38	0312770008SA	9/14/1993	ND	44.9	U	*not sampled*			*not sampled*			*not sampled*		
1274	CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	43.9	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1274-0058	58	0312770010SA	9/14/1993	ND	43.1	U	*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0000	0	0312770011SA	9/14/1993	344	83.9		*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	46.1	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0004	4	0312770013SA	9/14/1993	ND	45.8	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0008	8	0312770014SA	9/14/1993	ND	46.6	U	*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0018	18	0312770015SA	9/14/1993	ND	46.1	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0028	28	0312770016SA	9/14/1993	ND	44.9	U	*not sampled*			*not sampled*			*not sampled*		
1275	CAN127-1275-0038	38	0312770017SA	9/14/1993	ND	44.3	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0048	48	0312770018SA	9/14/1993	ND	44.5	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1275-0058	58	0312770019SA	9/14/1993	ND	44.7	U	*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Total Petroleum Hydrocarbons [f]			TPH-Diesel Range Organics [f]			TPH-Oil Range Organics [f]			TPH-Gasoline Range Organics [f]		
					Result (mg/kg)	RL	Qual	Result (mg/kg)	RL (mg/kg)	Qual	Result (mg/kg)	RL (mg/kg)	Qual	Result (mg/kg)	RL (mg/kg)	Qual
Maximum Detected Concentration					1.16E+04	8.39E+01		2.60E+01	1.20E+01		1.70E+01	2.40E+01	J	ND	--	--
NMED Residential SSL Concentration [d]					1.00E+03			1.00E+03			1.00E+03			1.00E+03		
NMED Industrial SSL Concentration [d]					1.00E+03			1.00E+03			1.00E+03			1.00E+03		
1276	CAN127-1276-0000	0	0312160012SA	9/13/1993	80.5	41.6		*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0002	2	0312160013SA	9/13/1993	ND	43.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0004	4	0312150009SA	9/13/1993	ND	43.3	U	*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0008	8	0312150010SA	9/13/1993	ND	44.1	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	43.9	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0028	28	0312150012SA	9/13/1993	ND	43.7	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0038	38	0312150013SA	9/13/1993	ND	44.1	U	*not sampled*			*not sampled*			*not sampled*		
1276	CAN127-1276-0048	48	0312150014SA	9/13/1993	ND	43.9	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1276-0058	58	0312150015SA	9/13/1993	ND	43.2	U	*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0000	0	0311840009SA	9/12/1993	44.1	42.1		*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0002	2	0311840010SA	9/12/1993	ND	43.1	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0004	4	0311840011SA	9/12/1993	ND	43.6	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	44.2	U	*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0018	18	0311840013SA	9/12/1993	ND	45.4	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0028	28	0311840014SA	9/12/1993	ND	44.6	U	*not sampled*			*not sampled*			*not sampled*		
1277	CAN127-1277-0038	38	0311840015SA	9/12/1993	ND	44.1	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0048	48	0311840016SA	9/12/1993	ND	44.0	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1277-0058	58	0311840017SA	9/12/1993	ND	44.2	U	*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0000	0	0311840001SA	9/12/1993	ND	42.2	U	*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0002	2	0311840002SA	9/12/1993	ND	43.6	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0004	4	0311840004SA	9/12/1993	ND	43.6	U	*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0008	8	0311840005SA	9/12/1993	170	44.4		*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0018	18	0311840006SA	9/12/1993	55.9	45.7		*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0028	28	0311840007SA	9/12/1993	ND	44.9	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0038	38	0311840008SA	9/12/1993	ND	44.2	U	*not sampled*			*not sampled*			*not sampled*		
1278	CAN127-1278-0048	48	0312160010SA	9/13/1993	ND	44.4	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-1278-0058	58	0312160011SA	9/13/1993	ND	45.1	U	*not sampled*			*not sampled*			*not sampled*		
2709	CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	44.8	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	46.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	45.5	U	*not sampled*			*not sampled*			*not sampled*		
2710	CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	11,600	1,150		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	47	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	44	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	47.1	U	*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Total Petroleum Hydrocarbons [f]			TPH-Diesel Range Organics [f]			TPH-Oil Range Organics [f]			TPH-Gasoline Range Organics [f]		
					Result (mg/kg)	RL	Qual	Result (mg/kg)	RL (mg/kg)	Qual	Result (mg/kg)	RL (mg/kg)	Qual	Result (mg/kg)	RL (mg/kg)	Qual
Maximum Detected Concentration					1.16E+04	8.39E+01		2.60E+01	1.20E+01		1.70E+01	2.40E+01	J	ND	--	--
NMED Residential SSL Concentration [d]					1.00E+03			1.00E+03			1.00E+03			1.00E+03		
NMED Industrial SSL Concentration [d]					1.00E+03			1.00E+03			1.00E+03			1.00E+03		
2711	CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	130	43.3		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	42.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	45.3	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	44.3	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	44.7	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	44.6	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	45.1	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	44.7	UJ	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	43.8	UJ	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	44.6	UJ	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	44.4	UJ	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	128	43.4		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	45.7	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	45.4	U	*not sampled*			*not sampled*			*not sampled*		
2712	CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	168	43.9		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	44.3	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	43.4	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	48	44.1		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	293	45.1		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	44.5	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	45.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	46	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	67.4	44.4		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	45.1	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	44.6	U	*not sampled*			*not sampled*			*not sampled*		
2713	CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	66.5	43.9		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	52.3	43.8		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	44.8	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	45.6	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	44.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	46.5	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	47.1	44.8		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	45.9	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	44.5	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	47.9	45.3		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	44.4	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	*not sampled*			*not sampled*			*not sampled*			*not sampled*		
	CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	44.1	U	*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Total Petroleum Hydrocarbons [f]			TPH-Diesel Range Organics [f]			TPH-Oil Range Organics [f]			TPH-Gasoline Range Organics [f]		
					Result (mg/kg)	RL	Qual	Result (mg/kg)	RL (mg/kg)	Qual	Result (mg/kg)	RL (mg/kg)	Qual	Result (mg/kg)	RL (mg/kg)	Qual
Maximum Detected Concentration					1.16E+04	8.39E+01		2.60E+01	1.20E+01		1.70E+01	2.40E+01	J	ND	--	--
NMED Residential SSL Concentration [d]					1.00E+03			1.00E+03			1.00E+03			1.00E+03		
NMED Industrial SSL Concentration [d]					1.00E+03			1.00E+03			1.00E+03			1.00E+03		
2714	CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	ND	44.8	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	69.4	43.4		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	43.6	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	43.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	44.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	44.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	44.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	182	44.2		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	50.9	43.6		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	83.6	43.6		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	43	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	ND	44.9	U	*not sampled*			*not sampled*			*not sampled*		
2715	CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	80.8	44		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	42.5	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	43.6	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	44.2	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	44.9	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	44.4	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	44.7	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	171	43.6		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	43.7	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	43.7	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	44.3	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	43.2	U	*not sampled*			*not sampled*			*not sampled*		
2716	CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	45.7	45		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	46.1	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	43.9	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	44	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	60.7	44.9		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	51	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	43.7	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	44.4	U	*not sampled*			*not sampled*			*not sampled*		
	CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	53.9	43		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	1,700	436		*not sampled*			*not sampled*			*not sampled*		
	CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	44.2	U	*not sampled*			*not sampled*			*not sampled*		

Table 12
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Location	Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Total Petroleum Hydrocarbons [f]			TPH-Diesel Range Organics [f]			TPH-Oil Range Organics [f]			TPH-Gasoline Range Organics [f]		
					Result (mg/kg)	RL	Qual	Result (mg/kg)	RL (mg/kg)	Qual	Result (mg/kg)	RL (mg/kg)	Qual	Result (mg/kg)	RL (mg/kg)	Qual
Maximum Detected Concentration					1.16E+04	8.39E+01		2.60E+01	1.20E+01		1.70E+01	2.40E+01	J	ND	--	--
NMED Residential SSL Concentration [d]					1.00E+03			1.00E+03			1.00E+03			1.00E+03		
NMED Industrial SSL Concentration [d]					1.00E+03			1.00E+03			1.00E+03			1.00E+03		
127SB01	127SB0100	0 to 3	B141-01	2/13/2008	*not sampled*			ND	12	U	ND	23	U	ND	1.2	U
127SB02	127SB0200	0 to 2.5	B141-02	2/13/2008	*not sampled*			26	12		17	24	J	ND	1.2	U
127SB03	127SB0300	0 to 2.5	B141-03	2/13/2008	*not sampled*			ND	11	U	ND	23	U	ND	1.1	U
127SB04	127SB0400	0 to 2.5	B141-04	2/13/2008	*not sampled*			ND	12	U	ND	23	U	ND	1.2	U
127SB05	127SB0500	0 to 3	B141-05	2/13/2008	*not sampled*			ND	11	U	ND	23	U	ND	1.1	U
127SB06	127SB0600	0 to 3	B141-06	2/13/2008	*not sampled*			ND	11	U	ND	23	U	ND	1.1	U
127SB07	127SB0700	0 to 3	B141-07	2/13/2008	*not sampled*			ND	12	U	ND	23	U	ND	1.2	U
127SB08	127SB0800	0 to 3	B175-01	2/14/2008	*not sampled*			ND	12	U	ND	23	U	ND	1.2	U
127SB09	127SB0900	0 to 3	B175-02	2/14/2008	*not sampled*			ND	12	U	ND	24	U	ND	1.2	U
127SB10	127SB1000	0 to 3	B175-03	2/14/2008	*not sampled*			ND	12	U	ND	23	U	ND	1.2	U
127SB11	127SB1100	0 to 3	B175-04	2/14/2008	*not sampled*			ND	11	U	ND	22	U	ND	1.1	U
127SB12	127SB1200	0 to 3	B175-05	2/14/2008	*not sampled*			ND	11	U	ND	22	U	ND	1.1	U
127SB13	127SB1300	0 to 3	B175-06	2/14/2008	*not sampled*			ND	11	U	ND	22	U	ND	1.1	U
127SB13M	127SB1300M	0 to 3	B175-07	2/14/2008	*not sampled*			ND	11	U	9.5	21	J	ND	1.1	U
127SB13D	127SB1300D	0 to 3	B175-08	2/14/2008	*not sampled*			ND	11	U	11	22	J	ND	1.1	U
127SB14	127SB1400	0 to 3	B175-09	2/14/2008	*not sampled*			ND	11	U	ND	22	U	ND	1.1	U
127SB15	127SB1500	0 to 3	B175-10	2/14/2008	*not sampled*			ND	12	U	ND	23	U	ND	1.2	U
127SB16	127SB1600	0 to 3	B175-11	2/14/2008	*not sampled*			ND	11	U	5.4	21	J	ND	1.1	U
127SB17	127SB1700	0 to 3	B175-12	2/14/2008	*not sampled*			ND	11	U	9.8	21	J	ND	1.1	U
127SB18	127SB1800	0 to 3	B175-13	2/14/2008	*not sampled*			ND	11	U	16	22	J	ND	1.1	U
127SB1810	127SB1810	0 to 3	B175-14	2/14/2008	*not sampled*			ND	11	U	ND	22	U	ND	1.1	U
Frequency of Detection					*33*	*of 62*		*1*	*of 21*		*6*	*of 21*		*0*	*of 21*	

APPENDICES

APPENDIX A

PRO-UCL Input and Output Files (on CD)

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	7/10/2015 1:53:47 PM
From File	ProUCL input and output_soil drivers (for Non-Res Risk Eval).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

BaA (ug/kg)

General Statistics

Total Number of Observations	68	Number of Distinct Observations	41
Number of Detects	33	Number of Non-Detects	35
Number of Distinct Detects	32	Number of Distinct Non-Detects	10
Minimum Detect	2	Minimum Non-Detect	11
Maximum Detect	8000	Maximum Non-Detect	38000
Variance Detects	1921656	Percent Non-Detects	51.47%
Mean Detects	420.1	SD Detects	1386
Median Detects	89	CV Detects	3.3
Skewness Detects	5.429	Kurtosis Detects	30.41
Mean of Logged Detects	4.241	SD of Logged Detects	1.942

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.301	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.931	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.381	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.154	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	237.3	Standard Error of Mean	123.2
SD	983.6	95% KM (BCA) UCL	494
95% KM (t) UCL	442.8	95% KM (Percentile Bootstrap) UCL	477.2
95% KM (z) UCL	440	95% KM Bootstrap t UCL	1173
90% KM Chebyshev UCL	606.9	95% KM Chebyshev UCL	774.3
97.5% KM Chebyshev UCL	1007	99% KM Chebyshev UCL	1463

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.783	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.84	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.203	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.165	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.37	k star (bias corrected MLE)	0.357
Theta hat (MLE)	1135	Theta star (bias corrected MLE)	1178
nu hat (MLE)	24.43	nu star (bias corrected)	23.55
MLE Mean (bias corrected)	420.1	MLE Sd (bias corrected)	703.3

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0582	nu hat (KM)	7.919
Approximate Chi Square Value (7.92, α)	2.688	Adjusted Chi Square Value (7.92, β)	2.623
95% Gamma Approximate KM-UCL (use when n>=50)	699.2	95% Gamma Adjusted KM-UCL (use when n<50)	716.6

Gamma (KM) may not be used when k hat (KM) is < 0.1

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	230.9
Maximum	8000	Median	6.3
SD	980.8	CV	4.248
k hat (MLE)	0.157	k star (bias corrected MLE)	0.16
Theta hat (MLE)	1472	Theta star (bias corrected MLE)	1445
nu hat (MLE)	21.34	nu star (bias corrected)	21.73
MLE Mean (bias corrected)	230.9	MLE Sd (bias corrected)	577.6
		Adjusted Level of Significance (β)	0.0465
Approximate Chi Square Value (21.73, α)	12.14	Adjusted Chi Square Value (21.73, β)	11.98
95% Gamma Approximate UCL (use when n>=50)	413.4	95% Gamma Adjusted UCL (use when n<50)	418.8

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.963	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.931	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.14	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.154	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	226.3	Mean in Log Scale	3.662
SD in Original Scale	977.3	SD in Log Scale	1.698
95% t UCL (assumes normality of ROS data)	424	95% Percentile Bootstrap UCL	454
95% BCA Bootstrap UCL	592.7	95% Bootstrap t UCL	1195
95% H-UCL (Log ROS)	281.4		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	3.613	95% H-UCL (KM -Log)	398.6
KM SD (logged)	1.866	95% Critical H Value (KM-Log)	2.783

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

KM Standard Error of Mean (logged)	0.295

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	832	Mean in Log Scale	4.626
SD in Original Scale	3288	SD in Log Scale	1.857
95% t UCL (Assumes normality)	1497	95% H-Stat UCL	1074

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (Chebyshev) UCL	774.3

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

BaP (ug/kg)

General Statistics

Total Number of Observations	68	Number of Distinct Observations	39
Number of Detects	35	Number of Non-Detects	33
Number of Distinct Detects	30	Number of Distinct Non-Detects	10
Minimum Detect	2.6	Minimum Non-Detect	11
Maximum Detect	8600	Maximum Non-Detect	38000
Variance Detects	2103752	Percent Non-Detects	48.53%
Mean Detects	462.4	SD Detects	1450

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

Median Detects	110	CV Detects	3.136
Skewness Detects	5.501	Kurtosis Detects	31.5
Mean of Logged Detects	4.453	SD of Logged Detects	1.902

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.314	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.934	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.376	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.15	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	275.1	Standard Error of Mean	132.7
SD	1061	95% KM (BCA) UCL	550.8
95% KM (t) UCL	496.5	95% KM (Percentile Bootstrap) UCL	535.8
95% KM (z) UCL	493.4	95% KM Bootstrap t UCL	1183
90% KM Chebyshev UCL	673.2	95% KM Chebyshev UCL	853.6
97.5% KM Chebyshev UCL	1104	99% KM Chebyshev UCL	1595

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.671	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.836	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.216	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.159	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.392	k star (bias corrected MLE)	0.378
Theta hat (MLE)	1179	Theta star (bias corrected MLE)	1225
nu hat (MLE)	27.45	nu star (bias corrected)	26.43

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

MLE Mean (bias corrected)	462.4	MLE Sd (bias corrected)	752.6

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0673	nu hat (KM)	9.148
Approximate Chi Square Value (9.15, α)	3.417	Adjusted Chi Square Value (9.15, β)	3.341
95% Gamma Approximate KM-UCL (use when n>=50)	736.7	95% Gamma Adjusted KM-UCL (use when n<50)	753.4

Gamma (KM) may not be used when k hat (KM) is < 0.1

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	266.1
Maximum	8600	Median	9.3
SD	1058	CV	3.975
k hat (MLE)	0.164	k star (bias corrected MLE)	0.166
Theta hat (MLE)	1624	Theta star (bias corrected MLE)	1599
nu hat (MLE)	22.28	nu star (bias corrected)	22.63
MLE Mean (bias corrected)	266.1	MLE Sd (bias corrected)	652.3
		Adjusted Level of Significance (β)	0.0465
Approximate Chi Square Value (22.63, α)	12.81	Adjusted Chi Square Value (22.63, β)	12.65
95% Gamma Approximate UCL (use when n>=50)	470	95% Gamma Adjusted UCL (use when n<50)	476

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.959	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.934	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.132	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.15	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	263.9	Mean in Log Scale	3.93
SD in Original Scale	1054	SD in Log Scale	1.672
95% t UCL (assumes normality of ROS data)	477.2	95% Percentile Bootstrap UCL	500
95% BCA Bootstrap UCL	765.6	95% Bootstrap t UCL	1170
95% H-UCL (Log ROS)	347.1		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	3.883	95% H-UCL (KM -Log)	476.7
KM SD (logged)	1.829	95% Critical H Value (KM-Log)	2.739
KM Standard Error of Mean (logged)	0.284		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	863.5	Mean in Log Scale	4.759
SD in Original Scale	3306	SD in Log Scale	1.81
95% t UCL (Assumes normality)	1532	95% H-Stat UCL	1094

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

97.5% KM (Chebyshev) UCL	1104

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

BbF (ug/kg)

General Statistics

Total Number of Observations	68	Number of Distinct Observations	37
Number of Detects	31	Number of Non-Detects	37
Number of Distinct Detects	29	Number of Distinct Non-Detects	10
Minimum Detect	8.6	Minimum Non-Detect	22
Maximum Detect	17000	Maximum Non-Detect	38000
Variance Detects	9141282	Percent Non-Detects	54.41%
Mean Detects	907.7	SD Detects	3023
Median Detects	230	CV Detects	3.331
Skewness Detects	5.361	Kurtosis Detects	29.36
Mean of Logged Detects	5.289	SD of Logged Detects	1.607

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.288	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.929	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.383	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.159	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	463.3	Standard Error of Mean	260.7
SD	2082	95% KM (BCA) UCL	1002
95% KM (t) UCL	898.1	95% KM (Percentile Bootstrap) UCL	968.8
95% KM (z) UCL	892.1	95% KM Bootstrap t UCL	2684
90% KM Chebyshev UCL	1245	95% KM Chebyshev UCL	1600
97.5% KM Chebyshev UCL	2091	99% KM Chebyshev UCL	3057

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	2.21	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.826	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.241	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.168	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.428	k star (bias corrected MLE)	0.408
Theta hat (MLE)	2122	Theta star (bias corrected MLE)	2226
nu hat (MLE)	26.52	nu star (bias corrected)	25.29
MLE Mean (bias corrected)	907.7	MLE Sd (bias corrected)	1421

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0495	nu hat (KM)	6.736
Approximate Chi Square Value (6.74, α)	2.027	Adjusted Chi Square Value (6.74, β)	1.972
95% Gamma Approximate KM-UCL (use when n>=50)	1540	95% Gamma Adjusted KM-UCL (use when n<50)	1583

Gamma (KM) may not be used when k hat (KM) is < 0.1

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	428.2
Maximum	17000	Median	4.305
SD	2072	CV	4.84
k hat (MLE)	0.137	k star (bias corrected MLE)	0.14
Theta hat (MLE)	3135	Theta star (bias corrected MLE)	3050
nu hat (MLE)	18.58	nu star (bias corrected)	19.09

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

MLE Mean (bias corrected)	428.2	MLE Sd (bias corrected)	1143
		Adjusted Level of Significance (β)	0.0465
Approximate Chi Square Value (19.09, α)	10.18	Adjusted Chi Square Value (19.09, β)	10.04
95% Gamma Approximate UCL (use when n>=50)	802.7	95% Gamma Adjusted UCL (use when n<50)	814

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.977	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.929	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.0942	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.159	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	445.4	Mean in Log Scale	4.311
SD in Original Scale	2068	SD in Log Scale	1.635
95% t UCL (assumes normality of ROS data)	863.7	95% Percentile Bootstrap UCL	934.2
95% BCA Bootstrap UCL	1269	95% Bootstrap t UCL	2715
95% H-UCL (Log ROS)	468.2		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	4.3	95% H-UCL (KM -Log)	540.9
KM SD (logged)	1.705	95% Critical H Value (KM-Log)	2.592
KM Standard Error of Mean (logged)	0.257		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	1038	Mean in Log Scale	5.02
SD in Original Scale	3727	SD in Log Scale	1.673
95% t UCL (Assumes normality)	1792	95% H-Stat UCL	1034

DL/2 is not a recommended method, provided for comparisons and historical reasons

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

Nonparametric Distribution Free UCL Statistics

Detected Data appear Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (Chebyshev) UCL 1600

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

DahA (ug/kg)

General Statistics

Total Number of Observations	68	Number of Distinct Observations	27
Number of Detects	16	Number of Non-Detects	52
Number of Distinct Detects	14	Number of Distinct Non-Detects	13
Minimum Detect	31	Minimum Non-Detect	22
Maximum Detect	310	Maximum Non-Detect	38000
Variance Detects	7092	Percent Non-Detects	76.47%
Mean Detects	108	SD Detects	84.22
Median Detects	96	CV Detects	0.78
Skewness Detects	1.443	Kurtosis Detects	1.625
Mean of Logged Detects	4.424	SD of Logged Detects	0.735

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.807	Shapiro Wilk GOF Test
5% Shapiro Wilk Critical Value	0.887	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.203	Lilliefors GOF Test

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

5% Lilliefors Critical Value	0.222	Detected Data appear Normal at 5% Significance Level

Detected Data appear Approximate Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	71.14	Standard Error of Mean	14.62
SD	74.91	95% KM (BCA) UCL	95.2
95% KM (t) UCL	95.53	95% KM (Percentile Bootstrap) UCL	96.11
95% KM (z) UCL	95.19	95% KM Bootstrap t UCL	107.9
90% KM Chebyshev UCL	115	95% KM Chebyshev UCL	134.9
97.5% KM Chebyshev UCL	162.4	99% KM Chebyshev UCL	216.6

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.688	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.75	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.229	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.218	Detected Data Not Gamma Distributed at 5% Significance Level

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	2.092	k star (bias corrected MLE)	1.741
Theta hat (MLE)	51.62	Theta star (bias corrected MLE)	62.02
nu hat (MLE)	66.95	nu star (bias corrected)	55.73
MLE Mean (bias corrected)	108	MLE Sd (bias corrected)	81.84

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.902	nu hat (KM)	122.7
Approximate Chi Square Value (122.68, α)	98.1	Adjusted Chi Square Value (122.68, β)	97.63
95% Gamma Approximate KM-UCL (use when n>=50)	88.97	95% Gamma Adjusted KM-UCL (use when n<50)	89.4

Gamma ROS Statistics using Imputed Non-Detects

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	53.47
Maximum	310	Median	22.81
SD	70.46	CV	1.318
k hat (MLE)	0.219	k star (bias corrected MLE)	0.219
Theta hat (MLE)	243.8	Theta star (bias corrected MLE)	243.6
nu hat (MLE)	29.83	nu star (bias corrected)	29.85
MLE Mean (bias corrected)	53.47	MLE Sd (bias corrected)	114.1
		Adjusted Level of Significance (β)	0.0465
Approximate Chi Square Value (29.85, α)	18.37	Adjusted Chi Square Value (29.85, β)	18.18
95% Gamma Approximate UCL (use when n>=50)	86.86	95% Gamma Adjusted UCL (use when n<50)	87.8

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.911	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.887	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.22	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.222	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	59	Mean in Log Scale	3.597
SD in Original Scale	63.34	SD in Log Scale	1.003
95% t UCL (assumes normality of ROS data)	71.81	95% Percentile Bootstrap UCL	71.82
95% BCA Bootstrap UCL	74.2	95% Bootstrap t UCL	74.26
95% H-UCL (Log ROS)	79.56		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

KM Mean (logged)	3.853	95% H-UCL (KM -Log)	84.66
KM SD (logged)	0.851	95% Critical H Value (KM-Log)	2.147
KM Standard Error of Mean (logged)	0.166		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	696.8	Mean in Log Scale	4.713
SD in Original Scale	3169	SD in Log Scale	1.446
95% t UCL (Assumes normality)	1338	95% H-Stat UCL	473.3

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Normal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (t) UCL	95.53	95% KM (Percentile Bootstrap) UCL	96.11

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

I(123cd)P (ug/kg)

General Statistics

Total Number of Observations	68	Number of Distinct Observations	35
Number of Detects	31	Number of Non-Detects	37
Number of Distinct Detects	28	Number of Distinct Non-Detects	11
Minimum Detect	3.1	Minimum Non-Detect	11
Maximum Detect	5100	Maximum Non-Detect	38000

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

Variance Detects	826256	Percent Non-Detects	54.41%
Mean Detects	328.9	SD Detects	909
Median Detects	88	CV Detects	2.764
Skewness Detects	5.139	Kurtosis Detects	27.6
Mean of Logged Detects	4.359	SD of Logged Detects	1.779

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.346	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.929	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.36	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.159	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	194.3	Standard Error of Mean	79.52
SD	629.3	95% KM (BCA) UCL	364.5
95% KM (t) UCL	327	95% KM (Percentile Bootstrap) UCL	348.8
95% KM (z) UCL	325.1	95% KM Bootstrap t UCL	618.6
90% KM Chebyshev UCL	432.9	95% KM Chebyshev UCL	541
97.5% KM Chebyshev UCL	690.9	99% KM Chebyshev UCL	985.6

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.253	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.821	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.176	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.168	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.449	k star (bias corrected MLE)	0.427

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

Theta hat (MLE)	731.7	Theta star (bias corrected MLE)	769.3
nu hat (MLE)	27.87	nu star (bias corrected)	26.5
MLE Mean (bias corrected)	328.9	MLE Sd (bias corrected)	503

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0953	nu hat (KM)	12.97
Approximate Chi Square Value (12.97, α)	5.869	Adjusted Chi Square Value (12.97, β)	5.766
95% Gamma Approximate KM-UCL (use when n>=50)	429.2	95% Gamma Adjusted KM-UCL (use when n<50)	437

Gamma (KM) may not be used when k hat (KM) is < 0.1

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	182.4
Maximum	5100	Median	19.97
SD	630.6	CV	3.458
k hat (MLE)	0.178	k star (bias corrected MLE)	0.18
Theta hat (MLE)	1022	Theta star (bias corrected MLE)	1011
nu hat (MLE)	24.26	nu star (bias corrected)	24.52
MLE Mean (bias corrected)	182.4	MLE Sd (bias corrected)	429.5
		Adjusted Level of Significance (β)	0.0465
Approximate Chi Square Value (24.52, α)	14.25	Adjusted Chi Square Value (24.52, β)	14.08
95% Gamma Approximate UCL (use when n>=50)	313.9	95% Gamma Adjusted UCL (use when n<50)	317.7

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.952	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.929	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.151	**Lilliefors GOF Test**

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

5% Lilliefors Critical Value	0.159	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	179.5	Mean in Log Scale	3.857
SD in Original Scale	625.2	SD in Log Scale	1.522
95% t UCL (assumes normality of ROS data)	306	95% Percentile Bootstrap UCL	325.6
95% BCA Bootstrap UCL	409.4	95% Bootstrap t UCL	660.4
95% H-UCL (Log ROS)	234.8		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	3.825	95% H-UCL (KM -Log)	351
KM SD (logged)	1.724	95% Critical H Value (KM-Log)	2.614
KM Standard Error of Mean (logged)	0.287		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	793.6	Mean in Log Scale	4.779
SD in Original Scale	3209	SD in Log Scale	1.714
95% t UCL (Assumes normality)	1443	95% H-Stat UCL	891.3

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (Chebyshev) UCL	541

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.

Appendix A-1
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (0-10 ft bgs)

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Table 1
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Sample Number	Depth (ft bgs)	Laboratory Sample Number	Sample Date	BaA (ug/kg)	d_BaA (ug/kg)	Qual a	BaP (ug/kg)	d_BaP (ug/kg)	Qual b	BbF (ug/kg)	d_BbF (ug/kg)	Qual c	DahA (ug/kg)	d_DahA (ug/kg)	Qual d	I(123cd)P (ug/kg)	d_I(123cd)P (ug/kg)	Qual e
CAN127-1274-0000	0	0312770001SA	9/14/1993	83	1	J	120	1	J	270	1	J	370	0	U	68	1	J
CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	91	1	J	100	1	J	250	1	J	360	0	UJ	360	0	UJ
CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	96	1	J	140	1	J	150	1	J	43	1	J	94	1	J
CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	380	0	U	380	0	U	380	0	U	380	0	U	380	0	U
CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	390	0	U	390	0	U	390	0	U	390	0	U	390	0	U
CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	390	0	U	390	0	U	390	0	U	390	0	U	390	0	U
CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	350	0	U	350	0	U	350	0	UJ	350	0	U	350	0	U
CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	370	0	U	370	0	U	370	0	U	370	0	U	370	0	U
CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	350	0	U	43	1	J	74	1	J	350	0	U	350	0	U
CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	380	0	U	380	0	U	380	0	U	380	0	U	380	0	U
CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	380	0	U	380	0	U	380	0	U	380	0	U	380	0	U
CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	360	0	U	360	0	U	360	0	U	360	0	U	360	0	U
CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	370	0	U	370	0	U	370	0	UJ	370	0	U	370	0	U
CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	360	0	U	360	0	U	360	0	U	360	0	U	360	0	U
CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	370	0	U	370	0	U	370	0	U	370	0	U	370	0	U
CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	370	0	UJ	370	0	UJ	370	0	UJ	370	0	UJ	370	0	UJ
CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	360	0	U	360	0	U	37	1	J	360	0	U	360	0	U
CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	360	0	U	360	0	U	360	0	U	360	0	U	360	0	U
CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	360	0	U	360	0	U	360	0	U	360	0	U	360	0	U
CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	360	0	U	360	0	U	360	0	U	360	0	U	360	0	U
CAN127-2711-2765	NR	0397370015SA	12/9/1994	380	0	U	380	0	U	380	0	U	380	0	U	380	0	U

Table 1
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene			Dibenz(a,h)anthracene			Indeno(1,2,3-cd)pyrene		
				BaA (ug/kg)	d_BaA (ug/kg)	Qual	BaP (ug/kg)	d_BaP (ug/kg)	Qual	BbF (ug/kg)	d_BbF (ug/kg)	Qual	DahA (ug/kg)	d_DahA (ug/kg)	Qual	I(123cd)P (ug/kg)	d_I(123cd)P (ug/kg)	Qual
127SB0100	0 to 3	B141-01	2/13/2008	2.0	12	J	3.7	12	J	ND	23	U	ND	23	U	3.1	12	J
127SB0300	0 to 2.5	B141-03	2/13/2008	2.4	11	J	7.3	11	J	ND	23	U	ND	23	U	9.9	11	J
127SB1200	0 to 3	B175-05	2/14/2008	2.6	11	J	3.6	11	J	ND	22	U	ND	22	U	4.3	11	J
127SB1400	0 to 3	B175-09	2/14/2008	5.8	11	J	9.1	11	J	11	22	J	ND	22	U	11	11	
127SB0600	0 to 3	B141-06	2/13/2008	6.3	11	J	5.0	11	J	ND	23	U	ND	23	U	4.2	11	J
127SB0900	0 to 3	B175-02	2/14/2008	6.3	12	J	6.7	12	J	8.6	24	J	ND	24	U	6.2	12	J
127SB0200	0 to 2.5	B141-02	2/13/2008	7.0	12	J	25	12		42	24		41	24		62	12	
127SB1000	0 to 3	B175-03	2/14/2008	9.5	12	J	9.5	12	J	13	23	J	ND	23	U	12	12	
127SB1700	0 to 3	B175-12	2/14/2008	28	11		51	11		63	21		36	21		60	11	
127SB1500	0 to 3	B175-10	2/14/2008	29	12		44	12		56	23		31	23		52	12	
127SB1600	0 to 3	B175-11	2/14/2008	40	11		67	11		81	21		47	21		79	11	
127SB1100	0 to 3	B175-04	2/14/2008	53	11		68	11		84	22		45	22		78	11	
127SB1800	0 to 3	B175-13	2/14/2008	61	11		110	11		140	22		110	22		160	11	
127SB1300	0 to 3	B175-06	2/14/2008	82	11		130	11		170	22		98	22		160	11	
CAN127-1274-0000	0	0312770001SA	9/14/1993	83	370	J	120	370	J	270	370	J	ND	370	U	68	370	J
CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	84	370	J	110	370	J	100	370	J	ND	370	U	83	370	J
CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	89	360	J	110	360	J	230	360	J	ND	360	UJ	ND	360	UJ
CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	91	360	J	100	360	J	250	360	J	ND	360	UJ	ND	360	UJ
CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	95	360	J	130	360	J	310	360	J	43	360	J	88	360	J
CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	96	360	J	140	360	J	150	360	J	43	360	J	94	360	J
127SB1300M	0 to 3	B175-07	2/14/2008	110	11		140	11		170	21		94	21		160	11	
127SB1300D	0 to 3	B175-08	2/14/2008	120	11		190	11		230	22		140	22		220	11	
CAN127-1278-0000	0	0311840001SA	9/12/1993	150	1,400	J	180	1,400	J	380	1,400	J	ND	1,400	U	ND	1,400	U
CAN127-1276-0000	0	0312160012SA	9/13/1993	160	340	J	230	340	J	410	340		ND	340	U	160	340	J
CAN127-1277-0000	0	0311840009SA	9/12/1993	190	350	J	180	350	J	390	350		ND	350	U	93	350	J
CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	260	360	J	400	360		420	360		ND	360	U	260	360	J
CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	370	370		580	370		640	370		140	370	J	340	370	J
CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	450	370		640	370		750	370		150	370	J	360	370	J
CAN127-1273-0000	0	0312160001SA	9/13/1993	510	350		550	350		960	350		ND	350	U	390	350	
CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	660	360		800	360		1,600	360		120	360	J	570	360	
CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	910	360		1100	360		1,100	360	J	280	360	J	700	360	
CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	1,100	360		1300	360		2,000	360	J	310	360	J	800	360	
CAN127-1275-0000	0	0312770011SA	9/14/1993	8,000	1,400		8,600	1,400		17,000	1,400		ND	1,400	U	5,100	1,400	
CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	400	U	ND	400	U	ND	400	U	ND	400	U	ND	400	U
CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U
CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U
CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	350	U	ND	350	U	ND	350	UJ	ND	350	U	ND	350	U
CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	360	U	ND	360	U	37	360	J	ND	360	U	ND	360	U
CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	350	U	43	350	J	74	350	J	ND	350	U	ND	350	U
CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	420	U	ND	420	U	ND	420	U	ND	420	U	ND	420	U
CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
127SB0400	0 to 2.5	B141-04	2/13/2008	ND	12	U	ND	12	U	ND	23	U	ND	23	U	ND	12	U
127SB0500	0 to 3	B141-05	2/13/2008	ND	11	U	ND	11	U	ND	23	U	ND	23	U	ND	11	U
127SB0700	0 to 3	B141-07	2/13/2008	ND	12	U	ND	12	U	ND	23	U	ND	23	U	ND	12	U
127SB0800	0 to 3	B175-01	2/14/2008	ND	12	U	ND	12	U	ND	23	U	ND	23	U	ND	12	U
127SB1810	0 to 3	B175-14	2/14/2008	ND	11	U	2.6	11	J	ND	22	U	ND	22	U	7	11	J

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	7/22/2015 4:29:17 PM
From File	Apdx A-3 ProUCL input and output_soil drivers (PAHs in surface soil).xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

BaA (ug/kg)

General Statistics

Total Number of Observations	44	Number of Distinct Observations	37
Number of Detects	31	Number of Non-Detects	13
Number of Distinct Detects	30	Number of Distinct Non-Detects	7
Minimum Detect	2	Minimum Non-Detect	11
Maximum Detect	8000	Maximum Non-Detect	38000
Variance Detects	2042197	Percent Non-Detects	29.55%
Mean Detects	441.2	SD Detects	1429
Median Detects	84	CV Detects	3.239
Skewness Detects	5.262	Kurtosis Detects	28.56
Mean of Logged Detects	4.221	SD of Logged Detects	2.004

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.31	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.929	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.379	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.159	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	335.6	Standard Error of Mean	191.6
SD	1221	95% KM (BCA) UCL	722.7
95% KM (t) UCL	657.7	95% KM (Percentile Bootstrap) UCL	692.4
95% KM (z) UCL	650.7	95% KM Bootstrap t UCL	1791
90% KM Chebyshev UCL	910.4	95% KM Chebyshev UCL	1171
97.5% KM Chebyshev UCL	1532	99% KM Chebyshev UCL	2242

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.549	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.841	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.19	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.17	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.359	k star (bias corrected MLE)	0.345
Theta hat (MLE)	1230	Theta star (bias corrected MLE)	1277
nu hat (MLE)	22.23	nu star (bias corrected)	21.41
MLE Mean (bias corrected)	441.2	MLE Sd (bias corrected)	750.7

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0755	nu hat (KM)	6.644
Approximate Chi Square Value (6.64, α)	1.977	Adjusted Chi Square Value (6.64, β)	1.893
95% Gamma Approximate KM-UCL (use when n>=50)	1127	95% Gamma Adjusted KM-UCL (use when n<50)	1178

Gamma (KM) may not be used when k hat (KM) is < 0.1

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	313.4
Maximum	8000	Median	34.5
SD	1210	CV	3.862
k hat (MLE)	0.189	k star (bias corrected MLE)	0.192
Theta hat (MLE)	1656	Theta star (bias corrected MLE)	1636
nu hat (MLE)	16.66	nu star (bias corrected)	16.85
MLE Mean (bias corrected)	313.4	MLE Sd (bias corrected)	716.1
		Adjusted Level of Significance (β)	0.0445
Approximate Chi Square Value (16.85, α)	8.567	Adjusted Chi Square Value (16.85, β)	8.366
95% Gamma Approximate UCL (use when n>=50)	616.5	95% Gamma Adjusted UCL (use when n<50)	631.3

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.967	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.929	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.117	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.159	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	318.8	Mean in Log Scale	3.8
SD in Original Scale	1209	SD in Log Scale	1.891
95% t UCL (assumes normality of ROS data)	625.1	95% Percentile Bootstrap UCL	674.5
95% BCA Bootstrap UCL	856.5	95% Bootstrap t UCL	1784
95% H-UCL (Log ROS)	737		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	3.753	95% H-UCL (KM -Log)	1020
KM SD (logged)	2.018	95% Critical H Value (KM-Log)	3.701

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

KM Standard Error of Mean (logged)	0.336

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	1189	Mean in Log Scale	4.335
SD in Original Scale	4059	SD in Log Scale	2.26
95% t UCL (Assumes normality)	2218	95% H-Stat UCL	3968

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

99% KM (Chebyshev) UCL	2242

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

BaP (ug/kg)

General Statistics

Total Number of Observations	44	Number of Distinct Observations	34
Number of Detects	32	Number of Non-Detects	12
Number of Distinct Detects	28	Number of Distinct Non-Detects	7
Minimum Detect	2.6	Minimum Non-Detect	11
Maximum Detect	8600	Maximum Non-Detect	38000
Variance Detects	2292845	Percent Non-Detects	27.27%
Mean Detects	497	SD Detects	1514

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

Median Detects	115	CV Detects	3.047
Skewness Detects	5.262	Kurtosis Detects	28.81
Mean of Logged Detects	4.454	SD of Logged Detects	1.986

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.326	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.93	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.372	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.157	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	389.2	Standard Error of Mean	206.3
SD	1315	95% KM (BCA) UCL	819.9
95% KM (t) UCL	735.9	95% KM (Percentile Bootstrap) UCL	767.4
95% KM (z) UCL	728.5	95% KM Bootstrap t UCL	1899
90% KM Chebyshev UCL	1008	95% KM Chebyshev UCL	1288
97.5% KM Chebyshev UCL	1677	99% KM Chebyshev UCL	2442

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.394	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.837	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.198	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.167	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.379	k star (bias corrected MLE)	0.364
Theta hat (MLE)	1313	Theta star (bias corrected MLE)	1366
nu hat (MLE)	24.23	nu star (bias corrected)	23.29

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

MLE Mean (bias corrected)	497	MLE Sd (bias corrected)	823.8

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0875	nu hat (KM)	7.702
Approximate Chi Square Value (7.70, α)	2.564	Adjusted Chi Square Value (7.70, β)	2.464
95% Gamma Approximate KM-UCL (use when n>=50)	1169	95% Gamma Adjusted KM-UCL (use when n<50)	1216

Gamma (KM) may not be used when k hat (KM) is < 0.1

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	363.2
Maximum	8600	Median	59
SD	1305	CV	3.592
k hat (MLE)	0.199	k star (bias corrected MLE)	0.2
Theta hat (MLE)	1828	Theta star (bias corrected MLE)	1813
nu hat (MLE)	17.49	nu star (bias corrected)	17.63
MLE Mean (bias corrected)	363.2	MLE Sd (bias corrected)	811.5
		Adjusted Level of Significance (β)	0.0445
Approximate Chi Square Value (17.63, α)	9.122	Adjusted Chi Square Value (17.63, β)	8.913
95% Gamma Approximate UCL (use when n>=50)	701.9	95% Gamma Adjusted UCL (use when n<50)	718.3

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.957	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.93	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.143	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.157	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	370.8	Mean in Log Scale	4.084
SD in Original Scale	1303	SD in Log Scale	1.873
95% t UCL (assumes normality of ROS data)	700.9	95% Percentile Bootstrap UCL	756.5
95% BCA Bootstrap UCL	991.1	95% Bootstrap t UCL	1807
95% H-UCL (Log ROS)	930.1		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	4.036	95% H-UCL (KM -Log)	1276
KM SD (logged)	1.998	95% Critical H Value (KM-Log)	3.673
KM Standard Error of Mean (logged)	0.331		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	1240	Mean in Log Scale	4.562
SD in Original Scale	4077	SD in Log Scale	2.222
95% t UCL (Assumes normality)	2273	95% H-Stat UCL	4377

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

97.5% KM (Chebyshev) UCL	1677

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

BbF (ug/kg)

General Statistics

Total Number of Observations	44	Number of Distinct Observations	31
Number of Detects	27	Number of Non-Detects	17
Number of Distinct Detects	25	Number of Distinct Non-Detects	7
Minimum Detect	8.6	Minimum Non-Detect	22
Maximum Detect	17000	Maximum Non-Detect	38000
Variance Detects	10439151	Percent Non-Detects	38.64%
Mean Detects	1023	SD Detects	3231
Median Detects	230	CV Detects	3.157
Skewness Detects	5.008	Kurtosis Detects	25.6
Mean of Logged Detects	5.389	SD of Logged Detects	1.679

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.305	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.923	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.379	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.171	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	672.5	Standard Error of Mean	406.6
SD	2586	95% KM (BCA) UCL	1482
95% KM (t) UCL	1356	95% KM (Percentile Bootstrap) UCL	1476
95% KM (z) UCL	1341	95% KM Bootstrap t UCL	4397
90% KM Chebyshev UCL	1892	95% KM Chebyshev UCL	2445
97.5% KM Chebyshev UCL	3212	99% KM Chebyshev UCL	4718

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.773	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.825	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.229	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.18	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.423	k star (bias corrected MLE)	0.401
Theta hat (MLE)	2419	Theta star (bias corrected MLE)	2554
nu hat (MLE)	22.84	nu star (bias corrected)	21.64
MLE Mean (bias corrected)	1023	MLE Sd (bias corrected)	1616

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0676	nu hat (KM)	5.952
Approximate Chi Square Value (5.95, α)	1.615	Adjusted Chi Square Value (5.95, β)	1.541
95% Gamma Approximate KM-UCL (use when n>=50)	2478	95% Gamma Adjusted KM-UCL (use when n<50)	2598

Gamma (KM) may not be used when k hat (KM) is < 0.1

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	627.9
Maximum	17000	Median	59.5
SD	2562	CV	4.081
k hat (MLE)	0.156	k star (bias corrected MLE)	0.16
Theta hat (MLE)	4037	Theta star (bias corrected MLE)	3922
nu hat (MLE)	13.69	nu star (bias corrected)	14.09

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

MLE Mean (bias corrected)	627.9	MLE Sd (bias corrected)	1569
		Adjusted Level of Significance (β)	0.0445
Approximate Chi Square Value (14.09, α)	6.632	Adjusted Chi Square Value (14.09, β)	6.458
95% Gamma Approximate UCL (use when n>=50)	1334	95% Gamma Adjusted UCL (use when n<50)	1370

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.975	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.923	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.0898	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.171	Detected Data appear Lognormal at 5% Significance Level	

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	642.5	Mean in Log Scale	4.527
SD in Original Scale	2559	SD in Log Scale	1.828
95% t UCL (assumes normality of ROS data)	1291	95% Percentile Bootstrap UCL	1385
95% BCA Bootstrap UCL	1933	95% Bootstrap t UCL	4362
95% H-UCL (Log ROS)	1280		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	4.497	95% H-UCL (KM -Log)	1484
KM SD (logged)	1.892	95% Critical H Value (KM-Log)	3.521
KM Standard Error of Mean (logged)	0.312		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	1508	Mean in Log Scale	4.966
SD in Original Scale	4583	SD in Log Scale	2.067
95% t UCL (Assumes normality)	2670	95% H-Stat UCL	3994

DL/2 is not a recommended method, provided for comparisons and historical reasons

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

Nonparametric Distribution Free UCL Statistics

Detected Data appear Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

97.5% KM (Chebyshev) UCL	3212

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

DahA (ug/kg)

General Statistics

Total Number of Observations	44	Number of Distinct Observations	26
Number of Detects	15	Number of Non-Detects	29
Number of Distinct Detects	14	Number of Distinct Non-Detects	12
Minimum Detect	31	Minimum Non-Detect	22
Maximum Detect	310	Maximum Non-Detect	38000
Variance Detects	7277	Percent Non-Detects	65.91%
Mean Detects	112.3	SD Detects	85.31
Median Detects	98	CV Detects	0.759
Skewness Detects	1.362	Kurtosis Detects	1.389
Mean of Logged Detects	4.469	SD of Logged Detects	0.738

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.824	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.881	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.196	**Lilliefors GOF Test**

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

5% Lilliefors Critical Value	0.229	Detected Data appear Normal at 5% Significance Level

Detected Data appear Approximate Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	72.19	Standard Error of Mean	15.16
SD	76.08	95% KM (BCA) UCL	101.9
95% KM (t) UCL	97.66	95% KM (Percentile Bootstrap) UCL	98.35
95% KM (z) UCL	97.11	95% KM Bootstrap t UCL	106.1
90% KM Chebyshev UCL	117.7	95% KM Chebyshev UCL	138.2
97.5% KM Chebyshev UCL	166.8	99% KM Chebyshev UCL	223

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.553	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.747	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.207	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.224	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	2.13	k star (bias corrected MLE)	1.748
Theta hat (MLE)	52.74	Theta star (bias corrected MLE)	64.25
nu hat (MLE)	63.89	nu star (bias corrected)	52.45
MLE Mean (bias corrected)	112.3	MLE Sd (bias corrected)	84.96

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.9	nu hat (KM)	79.22
Approximate Chi Square Value (79.22, α)	59.71	Adjusted Chi Square Value (79.22, β)	59.14
95% Gamma Approximate KM-UCL (use when n>=50)	95.77	95% Gamma Adjusted KM-UCL (use when n<50)	96.7

Gamma ROS Statistics using Imputed Non-Detects

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	52.04
Maximum	310	Median	21.94
SD	71.39	CV	1.372
k hat (MLE)	0.216	k star (bias corrected MLE)	0.216
Theta hat (MLE)	240.9	Theta star (bias corrected MLE)	240.4
nu hat (MLE)	19.01	nu star (bias corrected)	19.04
MLE Mean (bias corrected)	52.04	MLE Sd (bias corrected)	111.9
		Adjusted Level of Significance (β)	0.0445
Approximate Chi Square Value (19.04, α)	10.15	Adjusted Chi Square Value (19.04, β)	9.929
95% Gamma Approximate UCL (use when n>=50)	97.64	95% Gamma Adjusted UCL (use when n<50)	99.81

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.922	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.881	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.199	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.229	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	58.73	Mean in Log Scale	3.598
SD in Original Scale	65.56	SD in Log Scale	0.989
95% t UCL (assumes normality of ROS data)	75.35	95% Percentile Bootstrap UCL	76
95% BCA Bootstrap UCL	78.45	95% Bootstrap t UCL	81.41
95% H-UCL (Log ROS)	84.94		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

KM Mean (logged)	3.856	95% H-UCL (KM -Log)	92.38
KM SD (logged)	0.867	95% Critical H Value (KM-Log)	2.224
KM Standard Error of Mean (logged)	0.173		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	979.6	Mean in Log Scale	4.471
SD in Original Scale	3926	SD in Log Scale	1.744
95% t UCL (Assumes normality)	1975	95% H-Stat UCL	966.3

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Normal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (t) UCL	97.66	95% KM (Percentile Bootstrap) UCL	98.35

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

I(123cd)P (ug/kg)

General Statistics

Total Number of Observations	44	Number of Distinct Observations	32
Number of Detects	30	Number of Non-Detects	14
Number of Distinct Detects	27	Number of Distinct Non-Detects	8
Minimum Detect	3.1	Minimum Non-Detect	11
Maximum Detect	5100	Maximum Non-Detect	38000

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

Variance Detects	852782	Percent Non-Detects	31.82%
Mean Detects	336.7	SD Detects	923.5
Median Detects	85.5	CV Detects	2.743
Skewness Detects	5.056	Kurtosis Detects	26.7
Mean of Logged Detects	4.352	SD of Logged Detects	1.809

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.35	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.927	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.359	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.162	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	258.6	Standard Error of Mean	122.6
SD	779.1	95% KM (BCA) UCL	491.8
95% KM (t) UCL	464.6	95% KM (Percentile Bootstrap) UCL	492.7
95% KM (z) UCL	460.2	95% KM Bootstrap t UCL	1016
90% KM Chebyshev UCL	626.3	95% KM Chebyshev UCL	792.8
97.5% KM Chebyshev UCL	1024	99% KM Chebyshev UCL	1478

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.168	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.822	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.168	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.17	Detected data appear Gamma Distributed at 5% Significance Level

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.442	k star (bias corrected MLE)	0.42

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

Theta hat (MLE)	762.4	Theta star (bias corrected MLE)	802.3
nu hat (MLE)	26.5	nu star (bias corrected)	25.18
MLE Mean (bias corrected)	336.7	MLE Sd (bias corrected)	519.7

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.11	nu hat (KM)	9.696
Approximate Chi Square Value (9.70, α)	3.752	Adjusted Chi Square Value (9.70, β)	3.627
95% Gamma Approximate KM-UCL (use when n>=50)	668.2	95% Gamma Adjusted KM-UCL (use when n<50)	691.2

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	236.4
Maximum	5100	Median	61
SD	773.4	CV	3.272
k hat (MLE)	0.207	k star (bias corrected MLE)	0.208
Theta hat (MLE)	1139	Theta star (bias corrected MLE)	1134
nu hat (MLE)	18.26	nu star (bias corrected)	18.35
MLE Mean (bias corrected)	236.4	MLE Sd (bias corrected)	517.7
		Adjusted Level of Significance (β)	0.0445
Approximate Chi Square Value (18.35, α)	9.642	Adjusted Chi Square Value (18.35, β)	9.428
95% Gamma Approximate UCL (use when n>=50)	449.8	95% Gamma Adjusted UCL (use when n<50)	460

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.953	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.927	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.146	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.162	Detected Data appear Lognormal at 5% Significance Level

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	241.9	Mean in Log Scale	3.997
SD in Original Scale	771.5	SD in Log Scale	1.675
95% t UCL (assumes normality of ROS data)	437.4	95% Percentile Bootstrap UCL	474.5
95% BCA Bootstrap UCL	678.3	95% Bootstrap t UCL	998.2
95% H-UCL (Log ROS)	503.3		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	3.957	95% H-UCL (KM -Log)	727.6
KM SD (logged)	1.83	95% Critical H Value (KM-Log)	3.434
KM Standard Error of Mean (logged)	0.313		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	1128	Mean in Log Scale	4.557
SD in Original Scale	3965	SD in Log Scale	2.103
95% t UCL (Assumes normality)	2133	95% H-Stat UCL	2963

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Gamma Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (BCA) UCL	491.8	95% GROS Adjusted Gamma UCL	460
95% Adjusted Gamma KM-UCL	691.2		

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.

Appendix A-2
Estimated 95% UCL EPCs for PAH Risk Drivers in Soil, Cannon AFB, SWMU 127 (surface soil)

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Table 1
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Sample Number	Depth (ft bgs)	Laboratory Sample Number	Sample Date	BaA (ug/kg)	d_BaA (ug/kg)	Qual a	BaP (ug/kg)	d_BaP (ug/kg)	Qual b	BbF (ug/kg)	d_BbF (ug/kg)	Qual c	DahA (ug/kg)	d_DahA (ug/kg)	Qual d	I(123cd)P (ug/kg)	d_I(123cd)P (ug/kg)	Qual e
CAN127-1274-0000	0	0312770001SA	9/14/1993	83	1	J	120	1	J	270	1	J	370	0	U	68	1	J

Table 1
Combined 1993, 1994, and 2008 Soil Analytical Results for SWMU 127

Sample Number	Depth (feet bgs)	Laboratory Sample Number	Sample Date	Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene			Dibenz(a,h)anthracene			Indeno(1,2,3-cd)pyrene		
				BaA (ug/kg)	d_BaA (ug/kg)	Qual	BaP (ug/kg)	d_BaP (ug/kg)	Qual	BbF (ug/kg)	d_BbF (ug/kg)	Qual	DahA (ug/kg)	d_DahA (ug/kg)	Qual	I(123cd)P (ug/kg)	d_I(123cd)P (ug/kg)	Qual
127SB0100	0 to 3	B141-01	2/13/2008	2.0	12	J	3.7	12	J	ND	23	U	ND	23	U	3.1	12	J
127SB0300	0 to 2.5	B141-03	2/13/2008	2.4	11	J	7.3	11	J	ND	23	U	ND	23	U	9.9	11	J
127SB1200	0 to 3	B175-05	2/14/2008	2.6	11	J	3.6	11	J	ND	22	U	ND	22	U	4.3	11	J
127SB1400	0 to 3	B175-09	2/14/2008	5.8	11	J	9.1	11	J	11	22	J	ND	22	U	11	11	
127SB0600	0 to 3	B141-06	2/13/2008	6.3	11	J	5.0	11	J	ND	23	U	ND	23	U	4.2	11	J
127SB0900	0 to 3	B175-02	2/14/2008	6.3	12	J	6.7	12	J	8.6	24	J	ND	24	U	6.2	12	J
127SB0200	0 to 2.5	B141-02	2/13/2008	7.0	12	J	25	12		42	24		41	24		62	12	
127SB1000	0 to 3	B175-03	2/14/2008	9.5	12	J	9.5	12	J	13	23	J	ND	23	U	12	12	
127SB1700	0 to 3	B175-12	2/14/2008	28	11		51	11		63	21		36	21		60	11	
127SB1500	0 to 3	B175-10	2/14/2008	29	12		44	12		56	23		31	23		52	12	
127SB1600	0 to 3	B175-11	2/14/2008	40	11		67	11		81	21		47	21		79	11	
127SB1100	0 to 3	B175-04	2/14/2008	53	11		68	11		84	22		45	22		78	11	
127SB1800	0 to 3	B175-13	2/14/2008	61	11		110	11		140	22		110	22		160	11	
127SB1300	0 to 3	B175-06	2/14/2008	82	11		130	11		170	22		98	22		160	11	
CAN127-1274-0000	0	0312770001SA	9/14/1993	83	370	J	120	370	J	270	370	J	ND	370	U	68	370	J
CAN127-2716-0000	0 to 0.5	0396550007SA	12/6/1994	84	370	J	110	370	J	100	370	J	ND	370	U	83	370	J
CAN127-2713-0000	0 to 0.5	0397380013SA	12/9/1994	89	360	J	110	360	J	230	360	J	ND	360	UJ	ND	360	UJ
CAN127-2713-0005	3 to 5	0397380002SA	12/9/1994	91	360	J	100	360	J	250	360	J	ND	360	UJ	ND	360	UJ
CAN127-2713-0000	0 to 0.5	0397380001SA	12/9/1994	95	360	J	130	360	J	310	360	J	43	360	J	88	360	J
CAN127-2714-0005	3 to 5	0396880008SA	12/7/1994	96	360	J	140	360	J	150	360	J	43	360	J	94	360	J
127SB1300M	0 to 3	B175-07	2/14/2008	110	11		140	11		170	21		94	21		160	11	
127SB1300D	0 to 3	B175-08	2/14/2008	120	11		190	11		230	22		140	22		220	11	
CAN127-1278-0000	0	0311840001SA	9/12/1993	150	1,400	J	180	1,400	J	380	1,400	J	ND	1,400	U	ND	1,400	U
CAN127-1276-0000	0	0312160012SA	9/13/1993	160	340	J	230	340	J	410	340		ND	340	U	160	340	J
CAN127-1277-0000	0	0311840009SA	9/12/1993	190	350	J	180	350	J	390	350		ND	350	U	93	350	J
CAN127-2715-0000	0 to 0.5	0396860001SA	12/7/1994	260	360	J	400	360		420	360		ND	360	U	260	360	J
CAN127-2714-2761	0 to 0.5	0396880007SA	12/7/1994	370	370		580	370		640	370		140	370	J	340	370	J
CAN127-2714-0000	0 to 0.5	0396880006SA	12/7/1994	450	370		640	370		750	370		150	370	J	360	370	J
CAN127-1273-0000	0	0312160001SA	9/13/1993	510	350		550	350		960	350		ND	350	U	390	350	
CAN127-2712-0000	0 to 0.5	0397130001SA	12/8/1994	660	360		800	360		1,600	360		120	360	J	570	360	
CAN127-2711-0000	0 to 0.5	0397370007SA	12/9/1994	910	360		1100	360		1,100	360	J	280	360	J	700	360	
CAN127-2711-2764	0 to 0.5	0397370014SA	12/9/1994	1,100	360		1300	360		2,000	360	J	310	360	J	800	360	
CAN127-1275-0000	0	0312770011SA	9/14/1993	8,000	1,400		8,600	1,400		17,000	1,400		ND	1,400	U	5,100	1,400	
CAN127-1271-0000	0	0313740003SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-1271-0004	4	0313740005SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-1272-0000	0	0313740007SA	9/23/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-1272-0002	2	0313740008SA	9/23/1993	ND	400	U	ND	400	U	ND	400	U	ND	400	U	ND	400	U
CAN127-1273-0008	8	0312160003SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-1274-0048	48	0312770009SA	9/14/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-1275-0002	2	0312770012SA	9/14/1993	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-1276-0018	18	0312150011SA	9/13/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-1277-0008	8	0311840012SA	9/12/1993	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-1278-0008	8	0311840005SA	9/12/1993	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2709-0000	0 to 0.5	0398710011SA	12/13/1994	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U	ND	37,000	U
CAN127-2709-0005	3 to 5	0398710009SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2709-0010	8 to 10	0398710008SA	12/13/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2710-0000	0 to 0.5	0398710005SA	12/13/1994	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U	ND	38,000	U
CAN127-2710-0005	3 to 5	0398710003SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
CAN127-2710-0010	8 to 10	0398710007SA	12/13/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2710-2766	3 to 5	0398710001SA	12/13/1994	ND	390	U	ND	390	U	ND	390	U	ND	390	U	ND	390	U
CAN127-2711-0005	3 to 5	0397370008SA	12/9/1994	ND	350	U	ND	350	U	ND	350	UJ	ND	350	U	ND	350	U
CAN127-2711-0010	8 to 10	0397370009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2711-0015	13 to 15	0397370010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2711-0020	18 to 20	0397370011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2711-0025	23 to 25	0397370012SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2711-0030	28 to 30	0397370013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2711-0035	33 to 35	0397740013SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2711-0040	38 to 40	0397740014SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2711-0050	48 to 50	0397740015SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2711-0060	58 to 60	0397740016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2711-2765	NR	0397370015SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2711-6030	28 to 30	0397370016SA	12/9/1994	ND	370	U	ND	370	U	ND	370	UJ	ND	370	U	ND	370	U
CAN127-2712-0005	3 to 5	0397130002SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0010	8 to 10	0397130003SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2712-0015	13 to 15	0397130004SA	12/8/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2712-0020	18 to 20	0397130005SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0025	23 to 25	0397130006SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0030	28 to 30	0397130007SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0035	33 to 35	0397130008SA	12/8/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2712-0040	38 to 40	0397130009SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0050	48 to 50	0397130010SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2712-0060	58 to 60	0397130011SA	12/8/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-0010	8 to 10	0397380003SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-0010	8 to 10	0397380003RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
CAN127-2713-0015	13 to 15	0397380004RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
CAN127-2713-0015	13 to 15	0397380004SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2713-0020	18 to 20	0397380005RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
CAN127-2713-0020	18 to 20	0397380005SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2713-0025	23 to 25	0397380006RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
CAN127-2713-0025	23 to 25	0397380006SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2713-0030	28 to 30	0397380007RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
CAN127-2713-0030	28 to 30	0397380007SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-0035	33 to 35	0397380008RA	12/9/1994	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ	ND	380	UJ
CAN127-2713-0035	33 to 35	0397380008SA	12/9/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2713-0040	38 to 40	0397380009RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
CAN127-2713-0040	38 to 40	0397380009SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-0050	48 to 50	0397380010RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
CAN127-2713-0050	48 to 50	0397380010SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-0060	58 to 60	0397380011RA	12/9/1994	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ	ND	370	UJ
CAN127-2713-0060	58 to 60	0397380011SA	12/9/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2713-2763	0 to 0.5	0397380012RA	12/9/1994	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ	ND	360	UJ
CAN127-2713-2763	0 to 0.5	0397380012SA	12/9/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0010	8 to 10	0396880009SA	12/7/1994	ND	360	U	ND	360	U	37	360	J	ND	360	U	ND	360	U
CAN127-2714-0015	13 to 15	0396880010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0020	18 to 20	0396880011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0025	23 to 25	0396880012SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0030	28 to 30	0396880013SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0035	33 to 35	0396880014SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0040	38 to 40	0396880015SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0050	48 to 50	0396880016SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2714-0060	58 to 60	0396880017SA	12/7/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
CAN127-2715-0005	3 to 5	0396860002SA	12/7/1994	ND	350	U	43	350	J	74	350	J	ND	350	U	ND	350	U
CAN127-2715-0010	8 to 10	0396860003SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2715-0015	13 to 15	0396860004SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2715-0020	18 to 20	0396860005SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2715-0025	23 to 25	0396860006SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2715-0030	28 to 30	0396860007SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2715-0035	33 to 35	0396860008SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2715-0040	38 to 40	0396860009SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2715-0050	48 to 50	0396860010SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2715-0060	58 to 60	0397130012SA	12/7/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2715-2762	8 to 10	0396860011SA	12/7/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2716-0005	3 to 5	0396550008SA	12/6/1994	ND	380	U	ND	380	U	ND	380	U	ND	380	U	ND	380	U
CAN127-2716-0010	8 to 10	0396550009SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2716-0015	13 to 15	0396550010SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2716-0020	18 to 20	0396550011SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2716-0025	23 to 25	0396550012SA	12/6/1994	ND	420	U	ND	420	U	ND	420	U	ND	420	U	ND	420	U
CAN127-2716-0030	28 to 30	0396550013SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2716-0035	33 to 35	0396550003SA	12/6/1994	ND	370	U	ND	370	U	ND	370	U	ND	370	U	ND	370	U
CAN127-2716-0040	38 to 40	0396550004SA	12/6/1994	ND	350	U	ND	350	U	ND	350	U	ND	350	U	ND	350	U
CAN127-2716-0050	48 to 50	0396550005SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
CAN127-2716-0060	58 to 60	0396550006SA	12/6/1994	ND	360	U	ND	360	U	ND	360	U	ND	360	U	ND	360	U
127SB0400	0 to 2.5	B141-04	2/13/2008	ND	12	U	ND	12	U	ND	23	U	ND	23	U	ND	12	U
127SB0500	0 to 3	B141-05	2/13/2008	ND	11	U	ND	11	U	ND	23	U	ND	23	U	ND	11	U
127SB0700	0 to 3	B141-07	2/13/2008	ND	12	U	ND	12	U	ND	23	U	ND	23	U	ND	12	U
127SB0800	0 to 3	B175-01	2/14/2008	ND	12	U	ND	12	U	ND	23	U	ND	23	U	ND	12	U
127SB1810	0 to 3	B175-14	2/14/2008	ND	11	U	2.6	11	J	ND	22	U	ND	22	U	7	11	J

APPENDIX B

Johnson & Ettinger Vapor Intrusion Model Input and Output Files (on CD)

SG-ADV
Version 2.0; 02/03

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
78875	1.10E+00			1,2-Dichloropropane
78933	5.20E+01			Methylethylketone (2-butanone)
108101	6.10E+00			Methylisobutylketone (4-methyl-2-pentanone)
67641	4.20E+02			Acetone
71432	3.90E+00			Benzene
75252	7.40E-01			Bromoform
75150	7.60E+01			Carbon disulfide
56235	7.60E-01			Carbon tetrachloride
75003	1.00E+00			Chloroethane (ethyl chloride)
67663	7.80E-01			Chloroform
74873	1.60E+00			Methyl chloride (chloromethane)
156592	2.30E+00			cis-1,2-Dichloroethylene
100414	6.70E+00			Ethylbenzene
95476	3.50E+01			o-Xylene
75092	5.10E+00			Methylene chloride
100425	3.40E+00			Styrene
127184	2.90E+01			Tetrachloroethylene
108883	3.80E+01			Toluene
591786	4.80E+00			2-Hexanone
79016	2.80E+02			Trichloroethylene
108054	5.80E+01			Vinyl acetate

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	#N/A Soil gas sampling depth below grade, L_s (cm)	#N/A Average soil temperature, T_S (°C)	#N/A Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152.4	24	152.4			S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054		1.5	0.403	0.31		1.5	0.375	0.054

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	244	0.1	0.25	5

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	26	26	350

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization a the normal boiling point $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Compound
7.33E-02	9.73E-06	2.82E-03	25	7,590	369.52	572.00	112.99	1.0E-05	4.0E-03	1,2-Dichloropropane
9.14E-02	1.02E-05	5.69E-05	25	7,481	352.50	536.78	72.11	0.0E+00	5.0E+00	Methylethylketone (2-butanone)
6.98E-02	8.35E-06	1.38E-04	25	8,243	389.50	571.00	100.16	0.0E+00	3.0E+00	Methylisobutylketone (4-methyl-2-pentanone)
1.06E-01	1.15E-05	3.50E-05	25	6,955	329.20	508.10	58.08	0.0E+00	3.1E+01	Acetone
8.95E-02	1.03E-05	5.55E-03	25	7,342	353.24	562.16	78.11	7.8E-06	3.0E-02	Benzene
3.57E-02	1.04E-05	5.35E-04	25	9,479	422.35	696.00	252.75	1.1E-06	0.0E+00	Bromoform
1.06E-01	1.30E-05	1.44E-02	25	6,391	319.00	552.00	76.13	0.0E+00	7.0E-01	Carbon disulfide
5.71E-02	9.79E-06	2.76E-02	25	7,127	349.90	556.60	153.82	6.0E-06	1.0E-01	Carbon tetrachloride
1.04E-01	1.16E-05	1.11E-02	25	5,879	285.30	460.40	64.51	0.0E+00	1.0E+01	Chloroethane (ethyl chloride)
7.69E-02	1.09E-05	3.67E-03	25	6,988	334.32	536.40	119.38	2.3E-05	9.8E-02	Chloroform
1.24E-01	1.36E-05	8.82E-03	25	5,115	249.00	416.25	50.49	1.8E-06	9.0E-02	Methyl chloride (chloromethane)
8.84E-02	1.13E-05	4.08E-03	25	7,192	333.65	544.00	96.94	0.0E+00	0.0E+00	cis-1,2-Dichloroethylene
6.85E-02	8.46E-06	7.88E-03	25	8,501	409.34	617.20	106.17	2.5E-06	1.0E+00	Ethylbenzene
6.89E-02	8.53E-06	5.18E-03	25	8,661	417.60	630.30	106.17	0.0E+00	1.0E-01	o-Xylene
9.99E-02	1.25E-05	3.25E-03	25	6,706	313.00	510.00	84.93	1.0E-08	6.0E-01	Methylene chloride
7.11E-02	8.78E-06	2.75E-03	25	8,737	418.31	636.00	104.15	0.0E+00	1.0E+00	Styrene
5.05E-02	9.46E-06	1.77E-02	25	8,288	394.40	620.20	165.83	2.6E-07	4.0E-02	Tetrachloroethylene
7.78E-02	9.20E-06	6.64E-03	25	7,930	383.78	591.79	92.14	0.0E+00	5.0E+00	Toluene
7.04E-02	8.44E-06	9.32E-05	25	8,610	401.00	60.10	100.16	0.0E+00	3.0E-02	2-Hexanone
6.87E-02	1.02E-05	9.85E-03	25	7,505	360.36	544.20	131.39	4.1E-06	2.0E-03	Trichloroethylene
8.49E-02	1.00E-05	5.11E-04	25	7,800	345.65	519.13	86.09	0.0E+00	2.0E-01	Vinyl acetate

END

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
8.20E+08	137.4	0.321	0.093	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	1.10E+00	1.69E+04
										5.20E+01	
										6.10E+00	
										4.20E+02	
										3.90E+00	
										7.40E-01	
										7.60E+01	
										7.60E-01	
										1.00E+00	
										7.80E-01	
										1.60E+00	
										2.30E+00	
										6.70E+00	
										3.50E+01	
										5.10E+00	
										3.40E+00	
										2.90E+01	
										3.80E+01	
										2.80E+02	
										5.80E+01	

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.06E+06	5.00E-03	15	8,478	2.69E-03	1.10E-01	1.80E-04	1.18E-02	0.00E+00	0.00E+00	1.18E-02	137.4
			8,244	5.43E-05	2.23E-03	1.80E-04	1.48E-02	0.00E+00	0.00E+00	1.48E-02	
			9,673	1.30E-04	5.34E-03	1.80E-04	1.13E-02	0.00E+00	0.00E+00	1.13E-02	
			7,384	3.36E-05	1.38E-03	1.80E-04	1.71E-02	0.00E+00	0.00E+00	1.71E-02	
			7,977	5.30E-03	2.18E-01	1.80E-04	1.45E-02	0.00E+00	0.00E+00	1.45E-02	
			10,746	5.03E-04	2.06E-02	1.80E-04	5.77E-03	0.00E+00	0.00E+00	5.77E-03	
			6,572	1.39E-02	5.69E-01	1.80E-04	1.71E-02	0.00E+00	0.00E+00	1.71E-02	
			7,716	2.64E-02	1.08E+00	1.80E-04	9.23E-03	0.00E+00	0.00E+00	9.23E-03	
			5,740	1.07E-02	4.41E-01	1.80E-04	1.68E-02	0.00E+00	0.00E+00	1.68E-02	
			7,407	3.52E-03	1.44E-01	1.80E-04	1.24E-02	0.00E+00	0.00E+00	1.24E-02	
			4,578	8.59E-03	3.52E-01	1.80E-04	2.00E-02	0.00E+00	0.00E+00	2.00E-02	
			7,592	3.91E-03	1.60E-01	1.80E-04	1.43E-02	0.00E+00	0.00E+00	1.43E-02	
			9,994	7.45E-03	3.05E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			10,245	4.88E-03	2.00E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			6,884	3.13E-03	1.28E-01	1.80E-04	1.61E-02	0.00E+00	0.00E+00	1.61E-02	
			10,294	2.59E-03	1.06E-01	1.80E-04	1.15E-02	0.00E+00	0.00E+00	1.15E-02	
			9,410	1.68E-02	6.88E-01	1.80E-04	8.16E-03	0.00E+00	0.00E+00	8.16E-03	
			9,001	6.31E-03	2.59E-01	1.80E-04	1.26E-02	0.00E+00	0.00E+00	1.26E-02	
			7,418	8.94E-05	3.66E-03	1.80E-04	1.14E-02	0.00E+00	0.00E+00	1.14E-02	
			8,382	9.39E-03	3.85E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			8,559	4.87E-04	2.00E-02	1.80E-04	1.37E-02	0.00E+00	0.00E+00	1.37E-02	

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Compound	
15	1.10E+00	1.33	8.33E+01	1.18E-02	5.30E+03	5.79E+05	2.57E-03	2.83E-03	1.0E-05	4.0E-03	1,2-Dichloropropane	2.57E-03
	5.20E+01			1.48E-02		4.18E+04	2.84E-03	1.48E-01	NA	5.0E+00	Methylethylketone (2-butanone	2.84E-03
	6.10E+00			1.13E-02		1.13E+06	2.51E-03	1.53E-02	NA	3.0E+00	Methylisobutylketone (4-methy	2.51E-03
	4.20E+02			1.71E-02		9.64E+03	3.02E-03	1.27E+00	NA	3.1E+01	Acetone	3.02E-03
	3.90E+00			1.45E-02		5.24E+04	2.82E-03	1.10E-02	7.8E-06	3.0E-02	Benzene	2.82E-03
	7.40E-01			5.77E-03		6.79E+11	1.71E-03	1.27E-03	1.1E-06	NA	Bromoform	1.71E-03
	7.60E+01			1.71E-02		9.66E+03	3.02E-03	2.29E-01	NA	7.0E-01	Carbon disulfide	3.02E-03
	7.60E-01			9.23E-03		2.50E+07	2.27E-03	1.72E-03	6.0E-06	1.0E-01	Carbon tetrachloride	2.27E-03
	1.00E+00			1.68E-02		1.15E+04	2.99E-03	2.99E-03	NA	1.0E+01	Chloroethane (ethyl chloride)	2.99E-03
	7.80E-01			1.24E-02		3.11E+05	2.63E-03	2.05E-03	2.3E-05	9.8E-02	Chloroform	2.63E-03
	1.60E+00			2.00E-02		2.55E+03	3.20E-03	5.11E-03	1.8E-06	9.0E-02	Methyl chloride (chloromethan	3.20E-03
	2.30E+00			1.43E-02		6.00E+04	2.80E-03	6.44E-03	NA	NA	cis-1,2-Dichloroethylene	2.80E-03
	6.70E+00			1.11E-02		1.47E+06	2.49E-03	1.67E-02	2.5E-06	1.0E+00	Ethylbenzene	2.49E-03
	3.50E+01			1.11E-02		1.35E+06	2.50E-03	8.74E-02	NA	1.0E-01	o-Xylene	2.50E-03
	5.10E+00			1.61E-02		1.69E+04	2.95E-03	1.50E-02	1.0E-08	6.0E-01	Methylene chloride	2.95E-03
	3.40E+00			1.15E-02		8.73E+05	2.54E-03	8.62E-03	NA	1.0E+00	Styrene	2.54E-03
	2.90E+01			8.16E-03		2.31E+08	2.12E-03	6.14E-02	2.6E-07	4.0E-02	Tetrachloroethylene	2.12E-03
	3.80E+01			1.26E-02		2.69E+05	2.65E-03	1.01E-01	NA	5.0E+00	Toluene	2.65E-03
	2.80E+02			1.14E-02		1.01E+06	2.52E-03	7.06E-01	NA	3.0E-02	2-Hexanone	2.52E-03
	2.80E+02			1.11E-02		1.41E+06	2.49E-03	6.98E-01	4.1E-06	2.0E-03	Trichloroethylene	2.49E-03
	5.80E+01			1.37E-02		9.45E+04	2.75E-03	1.60E-01	NA	2.0E-01	Vinyl acetate	2.75E-03

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)	Compound
	1.0E-08	6.8E-04	1,2-Dichloropropane
	NA	2.8E-05	Methylethylketone (2-butanone)
	NA	4.9E-06	Methylisobutylketone (4-methyl-2-pentanone)
	NA	3.9E-05	Acetone
	3.1E-08	3.5E-04	Benzene
	5.0E-10	NA	Bromoform
	NA	3.1E-04	Carbon disulfide
	3.7E-09	1.7E-05	Carbon tetrachloride
	NA	2.9E-07	Chloroethane (ethyl chloride)
	1.7E-08	2.0E-05	Chloroform
	3.3E-09	5.4E-05	Methyl chloride (chloromethane)
	NA	NA	cis-1,2-Dichloroethylene
	1.5E-08	1.6E-05	Ethylbenzene
	NA	8.4E-04	o-Xylene
	5.4E-11	2.4E-05	Methylene chloride
	NA	8.3E-06	Styrene
	5.7E-09	1.5E-03	Tetrachloroethylene
	NA	1.9E-05	Toluene
	NA	2.3E-02	2-Hexanone
	1.0E-06	3.3E-01	Trichloroethylene
	NA	7.7E-04	Vinyl acetate
Sum	**1.1E-06**	**0.36**	

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

SCROLL DOWN TO "END"

END

SIC	0.40	0.01622	1.321	0.2430	0.481	0.111	0.0039	1.38	0.216	Silty Clay
SICL	0.46	0.00839	1.521	0.3425	0.482	0.090	0.0056	1.37	0.198	Silty Clay Loam
SIL	0.76	0.00506	1.663	0.3987	0.439	0.065	0.011	1.49	0.180	Silt Loam
SL	1.60	0.02667	1.449	0.3099	0.387	0.039	0.030	1.62	0.103	Sandy Loam

		Chemical Properties Lookup Table										CalEPA Toxicity Criteria in bold (last updated 1/21/05 DTSC/HERD)					Original EPA Values				CalEPA / USEPA Potency Ratio
CAS No.	Chemical	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Pure component water solubility, S (mg/L)	Henry's law constant H' (unitless)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (°C)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)	URF extrapolated (X)	RfC extrapolated (X)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	URF extrapolated (X)	RfC extrapolated (X)	
56235	Carbon tetrachloride	1.74E+02	5.71E-02	9.79E-06	7.93E+02	1.24E+00	2.76E-02	25	349.90	556.60	7,127	**6.0E-06**	**1.0E-01**	1.54E+02			1.5E-05	0.0E+00			**0.40**
57749	Chlordane	1.20E+05	1.18E-02	4.37E-06	5.60E-02	1.99E-03	4.85E-05	25	624.24	885.73	14,000	**3.4E-04**	7.0E-04	4.10E+02			1.0E-04	7.0E-04			**3.40**
58899	gamma-HCH (Lindane)	1.07E+03	1.42E-02	7.34E-06	7.30E+00	5.73E-04	1.40E-05	25	596.55	839.36	15,000	**3.1E-04**	1.1E-03	2.91E+02	?	X	3.7E-04	1.1E-03	X	X	**0.84**
60297	Ethyl ether	5.73E+00	7.82E-02	8.61E-06	5.68E+04	1.35E+00	3.29E-02	25	307.50	466.74	6,338	0.0E+00	7.0E-01	7.41E+01		X	0.0E+00	7.0E-01		X	NC
60571	Dieldrin	2.14E+04	1.25E-02	4.74E-06	1.95E-01	6.18E-04	1.51E-05	25	613.32	842.25	17,000	**4.6E-03**	1.8E-04	3.81E+02		X	4.6E-03	1.8E-04		X	**1.00**
67641	Acetone	5.75E-01	1.06E-01	1.15E-05	1.00E+06	1.59E-03	3.50E-05	25	329.20	508.10	6,955	0.0E+00	3.1E+01	5.81E+01		X	0.0E+00	3.5E-01		X	NC
67663	Chloroform	3.98E+01	7.69E-02	1.09E-05	7.92E+03	1.50E-01	3.67E-03	25	334.32	536.40	6,988	**2.3E-05**	**9.8E-02**	1.19E+02			2.3E-05	0.0E+00			**1.00**
67721	Hexachloroethane	1.78E+03	2.50E-03	6.80E-06	5.00E+01	1.59E-01	3.88E-03	25	458.00	695.00	9,510	**1.1E-05**	3.5E-03	2.37E+02		X	4.0E-06	3.5E-03		X	**2.75**
71432	Benzene	5.89E+01	8.95E-02	1.03E-05	1.79E+03	2.27E-01	5.55E-03	25	353.24	562.16	7,342	**7.8E-06**	**3.0E-02**	7.81E+01			7.8E-06	0.0E+00			**1.00**
71556	1,1,1-Trichloroethane	1.10E+02	7.80E-02	8.80E-06	1.33E+03	7.03E-01	1.72E-02	25	347.24	545.00	7,136	0.0E+00	**1.0E+00**	1.33E+02			0.0E+00	2.2E+00			NC
72435	Methoxychlor	9.77E+04	1.56E-02	4.46E-06	1.00E-01	6.46E-04	1.58E-05	25	651.02	848.49	16,000	0.0E+00	1.8E-02	3.46E+02		X	0.0E+00	1.8E-02		X	NC
72559	DDE	4.47E+06	1.44E-02	5.87E-06	1.20E-01	8.59E-04	2.09E-05	25	636.44	860.38	15,000	**9.7E-05**	0.0E+00	3.18E+02	?		9.7E-05	0.0E+00	X		**1.00**
74839	Methyl bromide	1.05E+01	7.28E-02	1.21E-05	1.52E+04	2.55E-01	6.22E-03	25	276.71	467.00	5,714	0.0E+00	**5.0E-03**	9.49E+01			0.0E+00	5.0E-03			NC
74873	Methyl chloride (chloromethane)	2.12E+00	1.24E-01	1.36E-05	5.33E+03	3.61E-01	8.82E-03	25	249.00	416.25	5,115	1.8E-06	9.0E-02	5.05E+01			1.0E-06	9.0E-02			1.80
74908	Hydrogen cyanide	3.80E+00	1.93E-01	2.10E-05	1.00E+06	5.44E-03	1.33E-04	25	299.00	456.70	6,676	0.0E+00	3.0E-03	2.70E+01			0.0E+00	3.0E-03			NC
74953	Methylene bromide	1.26E+01	4.30E-02	8.44E-06	1.19E+04	3.52E-02	8.59E-04	25	370.00	583.00	7,868	0.0E+00	3.5E-02	1.74E+02		X	0.0E+00	3.5E-02		X	NC
75003	Chloroethane (ethyl chloride)	4.40E+00	1.04E-01	1.16E-05	5.68E+03	3.61E-01	1.11E-02	25	285.30	460.40	5,879		1.0E+01	6.45E+01	X		8.3E-07	1.0E+01	X		0.00
75014	Vinyl chloride (chloroethene)	1.86E+01	1.06E-01	1.23E-05	8.80E+03	1.10E+00	2.69E-02	25	259.25	432.00	5,250	**7.8E-05**	1.0E-01	6.25E+01			8.8E-06	1.0E-01			**8.86**
75058	Acetonitrile	4.20E+00	1.28E-01	1.66E-05	1.00E+06	1.42E-03	3.45E-05	25	354.60	545.50	7,110	0.0E+00	6.0E-02	4.11E+01			0.0E+00	6.0E-02			NC
75070	Acetaldehyde	1.06E+00	1.24E-01	1.41E-05	1.00E+06	3.23E-03	7.87E-05	25	293.10	466.00	6,157	**2.7E-06**	**9.0E-03**	4.41E+01			2.2E-06	9.0E-03			**1.23**
75092	Methylene chloride	1.17E+01	9.99E-02	1.25E-05	1.30E+04	8.96E-02	3.25E-03	25	313.00	510.00	6,706	**1.0E-08**	**6.0E-01**	8.49E+01			4.7E-07	3.0E+00			**0.02**
75150	Carbon disulfide	4.57E+01	1.06E-01	1.30E-05	1.19E+03	1.24E+00	1.44E-02	25	319.00	552.00	6,391	0.0E+00	7.0E-01	7.61E+01			0.0E+00	7.0E-01			NC
75218	Ethylene oxide	1.33E+00	1.04E-01	1.45E-05	3.04E+05	2.27E-02	5.54E-04	25	283.60	469.00	6,104	**8.8E-05**	**3.0E-02**	4.41E+01			1.0E-04	0.0E+00			**0.88**
75252	Bromoform	8.71E+01	3.57E-02	1.04E-05	3.10E+03	2.41E-02	5.35E-04	25	422.35	696.00	9,479	1.1E-06		2.53E+02		X	1.1E-06	7.0E-02		X	1.00
75274	Bromodichloromethane	5.50E+01	2.98E-02	1.06E-05	6.74E+03	6.54E-02	1.60E-03	25	363.15	585.85	7,800	**3.7E-05**	7.0E-02	1.64E+02	?	X	1.8E-05	7.0E-02	X	X	**2.09**
75296	2-Chloropropane	9.14E+00	8.88E-02	1.01E-05	3.73E+03	5.93E-01	1.45E-02	25	308.70	485.00	6,286	0.0E+00	1.0E-01	7.85E+01			0.0E+00	1.0E-01			NC
75343	1,1-Dichloroethane	3.16E+01	7.42E-02	1.05E-05	5.06E+03	2.30E-01	5.61E-03	25	330.55	523.00	6,895	**1.6E-06**	5.0E-01	9.90E+01			0.0E+00	5.0E-01			**CalEPA only**
75354	1,1-Dichloroethylene	5.89E+01	9.00E-02	1.04E-05	2.25E+03	1.07E+00	2.60E-02	25	304.75	576.05	6,247	0.0E+00	**7.0E-02**	9.69E+01			0.0E+00	2.0E-01			NC
75456	Chlorodifluoromethane	4.79E+01	1.01E-01	1.28E-05	2.00E+00	1.10E+00	2.70E-02	25	232.40	369.30	4,836	0.0E+00	5.0E+01	8.65E+01			0.0E+00	5.0E+01			NC
75694	Trichlorofluoromethane	4.97E+02	8.70E-02	9.70E-06	1.10E+03	3.97E+00	9.68E-02	25	296.70	471.00	5,999	0.0E+00	7.0E-01	1.37E+02			0.0E+00	7.0E-01			NC
75718	Dichlorodifluoromethane	4.57E+02	6.65E-02	9.92E-06	2.80E+02	1.40E+01	3.42E-01	25	243.20	384.95	9,421	0.0E+00	2.0E-01	1.21E+02			0.0E+00	2.0E-01			NC
76131	1,1,2-Trichloro-1,2,2-trifluoroethan	1.11E+04	7.80E-02	8.20E-06	1.70E+02	1.97E+01	4.80E-01	25	320.70	487.30	6,463	0.0E+00	3.0E+01	1.87E+02			0.0E+00	3.0E+01			NC
76448	Heptachlor	1.41E+06	1.12E-02	5.69E-06	1.80E-01	6.05E+01	1.48E+00	25	603.69	846.31	13,000	**1.6E-03**	1.8E-03	3.73E+02		X	1.3E-03	1.8E-03		X	**1.23**
77474	Hexachlorocyclopentadiene	2.00E+05	1.61E-02	7.21E-06	1.80E+00	1.10E+00	2.69E-02	25	512.15	746.00	10,931	0.0E+00	2.0E-04	2.73E+02			0.0E+00	2.0E-04			NC
78831	Isobutanol	2.59E+00	8.60E-02	9.30E-06	8.50E+04	4.83E-04	1.18E-05	25	381.04	547.78	10,936	0.0E+00	1.1E+00	7.41E+01		X	0.0E+00	1.1E+00		X	NC
78875	1,2-Dichloropropane	4.37E+01	7.33E-02	9.73E-06	2.80E+03	1.15E-01	2.82E-03	25	369.52	572.00	7,590	**1.0E-05**	4.0E-03	1.13E+02	?		1.9E-05	4.0E-03	X		**0.52**
78933	Methylethylketone (2-butanone)	2.30E+00	9.14E-02	1.02E-05	2.23E+05	2.29E-03	5.69E-05	25	352.50	536.78	7,481	0.0E+00	5.0E+00	7.21E+01			0.0E+00	1.0E+00			NC
79005	1,1,2-Trichloroethane	5.01E+01	7.80E-02	8.80E-06	4.42E+03	3.73E-02	9.11E-04	25	386.15	602.00	8,322	**1.6E-05**	1.4E-02	1.33E+02		X	1.6E-05	1.4E-02		X	**1.00**
79016	Trichloroethylene	1.66E+02	6.87E-02	1.02E-05	1.47E+03	4.21E-01	9.85E-03	25	360.36	544.20	7,505	**4.1E-06**	**2.0E-03**	1.31E+02	?		1.1E-04	4.0E-02	X		**0.04**
79209	Methyl acetate	3.26E+00	1.04E-01	1.00E-05	2.00E+03	4.84E-03	1.18E-04	25	329.80	506.70	7,260	0.0E+00	3.5E+00	7.41E+01		X	0.0E+00	3.5E+00		X	NC
79345	1,1,2,2-Tetrachloroethane	9.33E+01	7.10E-02	7.90E-06	2.96E+03	1.41E-02	3.44E-04	25	419.60	661.15	8,996	**5.8E-05**	2.1E-01	1.68E+02		X	5.8E-05	2.1E-01		X	**1.00**
79469	2-Nitropropane	1.17E+01	9.23E-02	1.01E-05	1.70E+04	5.03E-03	1.23E-04	25	393.20	594.00	8,383	2.7E-03	2.0E-02	8.91E+01			2.7E-03	2.0E-02			1.00
80626	Methylmethacrylate	6.98E+00	7.70E-02	8.60E-06	1.50E+04	1.38E-02	3.36E-04	25	373.50	567.00	8,975	0.0E+00	7.0E-01	1.00E+02			0.0E+00	7.0E-01			NC
83329	Acenaphthene	7.08E+03	4.21E-02	7.69E-06	3.57E+00	6.34E-03	1.55E-04	25	550.54	803.15	12,155	0.0E+00	2.1E-01	1.54E+02		X	0.0E+00	2.1E-01		X	NC
86737	Fluorene	1.38E+04	3.63E-02	7.88E-06	1.98E+00	2.60E-03	6.34E-05	25	570.44	870.00	12,666	0.0E+00	1.4E-01	1.66E+02		X	0.0E+00	1.4E-01		X	NC
87683	Hexachloro-1,3-butadiene	5.37E+04	5.61E-02	6.16E-06	3.20E+00	3.33E-01	8.13E-03	25	486.15	738.00	10,206	2.2E-05	7.0E-04	2.61E+02		X	2.2E-05	7.0E-04		X	1.00
88722	o-Nitrotoluene	3.24E+02	5.87E-02	8.67E-06	6.50E+02	5.11E-04	1.25E-05	25	495.00	720.00	12,239	0.0E+00	3.5E-02	1.37E+02		X	0.0E+00	3.5E-02		X	NC
91203	Naphthalene	2.00E+03	5.90E-02	7.50E-06	3.10E+01	1.98E-02	4.82E-04	25	491.14	748.40	10,373	**3.4E-05**	3.0E-03	1.28E+02			0.0E+00	3.0E-03			NC
91576	2-Methylnaphthalene	2.81E+03	5.22E-02	7.75E-06	2.46E+01	2.12E-02	5.17E-04	25	514.26	761.00	12,600	0.0E+00	7.0E-02	1.42E+02		X	0.0E+00	7.0E-02		X	NC
92524	Biphenyl	4.38E+03	4.04E-02	8.15E-06	7.45E+00	1.23E-02	2.99E-04	25	529.10	789.00	10,890	0.0E+00	1.8E-01	1.54E+02		X	0.0E+00	1.8E-01		X	NC
95476	o-Xylene	3.63E+02	6.89E-02	8.53E-06	1.78E+02	2.12E-01	5.18E-03	25	417.60	630.30	8,661	0.0E+00	1.0E-01	1.06E+02		?	0.0E+00	1.0E-01			NC
95501	1,2-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	1.56E+02	7.77E-02	1.90E-03	25	453.57	705.00	9,700	0.0E+00	2.0E-01	1.47E+02			0.0E+00	2.0E-01			NC
95578	2-Chlorophenol	3.88E+02	5.01E-02	9.46E-06	2.20E+04	1.60E-02	3.90E-04	25	447.53	675.00	9,572	0.0E+00	1.8E-02	1.29E+02		X	0.0E+00	1.8E-02		X	NC
95636	1,2,4-Trimethylbenzene	1.35E+03	6.06E-02	7.92E-06	5.70E+01	2.52E-01	6.14E-03	25	442.30	649.17	9,369	0.0E+00	6.0E-03	1.20E+02			0.0E+00	6.0E-03			NC
96184	1,2,3-Trichloropropane	2.20E+01	7.10E-02	7.90E-06	1.75E+03	1.67E-02	4.08E-04	25	430.00	652.00	9,171	5.7E-04	4.9E-03	1.47E+02	X		5.7E-04	4.9E-03	X		1.00
96333	Methyl acrylate	4.53E+00	9.76E-02	1.02E-05	6.00E+04	7.68E-03	1.87E-04	25	353.70	536.00	7,749	0.0E+00	1.1E-01	8.61E+01		X	0.0E+00	1.1E-01		X	NC
97632	Ethylmethacrylate	2.95E+01	6.53E-02	8.37E-06	3.67E+03	3.44E-02	8.40E-04	25	390.00	571.00	10,957	0.0E+00	3.2E-01	1.14E+02		X	0.0E+00	3.2E-01		X	NC
98066	tert-Butylbenzene	7.71E+02	5.65E-02	8.02E-06	2.95E+01	4.87E-01	1.19E-02	25	442.10	1220.00	8,980	0.0E+00	1.4E-01	1.34E+02		X	0.0E+00	1.4E-01		X	NC
98828	Cumene	4.89E+02	6.50E-02	7.10E-06	6.13E+01	4.74E+01	1.16E+00	25	425.56	631.10	10,335	0.0E+00	4.0E-01	1.20E+02			0.0E+00	4.0E-01			NC
98862	Acetophenone	5.77E+01	6.00E-02	8.73E-06	6.13E+03	4.38E-04	1.07E-05	25	475.00	709.50	11,732	0.0E+00	3.5E-01	1.20E+02		X	0.0E+00	3.5E-01		X	NC
98953	Nitrobenzene	6.46E+01	7.60E-02	8.60E-06	2.09E+03	9.82E-04	2.39E-05	25	483.95	719.00	10,566	0.0E+00	2.0E-03	1.23E+02			0.0E+00	2.0E-03			NC
100414	Ethylbenzene	3.63E+02	6.85E-02	8.46E-06	1.69E+02	3.22E-01	7.88E-03	25	409.34	617.20	8,501	2.5E-06	1.0E+00	1.06E+02			0.0E+00	1.0E+00			NC
100425	Styrene	7.76E+02	7.11E-02	8.78E-06	3.10E+02	1.12E-01	2.75E-03	25	418.31	636.00	8,737	0.0E+00	**1.0E+00**	1.04E+02			0.0E+00	1.0E+00			NC
100447	Benzylchloride	6.14E+01	7.50E-02	7.80E-06	5.25E+02	1.70E-02	4.14E-04	25	452.00	685.00	8,773	**4.9E-05**	0.0E+00	1.27E+02	?		4.9E-05	0.0E+00	X		**1.00**
100527	Benzaldehyde	4.59E+01	7.21E-02	9.07E-06	3.30E+03	9.73E-04	2.37E-05	25	452.00	695.00	11,658	0.0E+00	3.5E-01	1.06E+02		X	0.0E+00	3.5E-01		X	NC
103651	n-Propylbenzene	5.62E+02	6.01E-02	7.83E-06	6.00E+01	4.37E-01	1.07E-02	25	432.20	630.00	9,123	0.0E+00	1.4E-01	1.20E+02		X	0.0E+00	1.4E-01		X	NC
104518	n-Butylbenzene	1.11E+03	5.70E-02	8.12E-06	2.00E+00	5.38E-01	1.31E-02	25	456.46	660.50	9,290	0.0E+00	1.4E-01	1.34E+02		X	0.0E+00	1.4E-01		X	NC
106423	p-Xylene	3.89E+02	7.69E-02	8.44E-06	1.85E+02	3.13E-01	7.64E-03	25	411.52	616.20	8,525	0.0E+00	1.0E-01	1.06E+02		?	0.0E+00	1.0E-01			NC
106467	1,4-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	7.90E+01	9.82E-02	2.39E-03	25	447.21	684.75	9,271	**1.1E-05**	**8.0E-01**	1.47E+02			0.0E+00	8.0E-01			**CalEPA only**
106934	1,2-Dibromoethane (ethylene dibro	2.50E+01	2.17E-02	1.19E-05	4.18E+03	3.04E-02	7.41E-04	25	404.60	583.00	8,310	**7.1E-05**	**8.0E-04**	1.88E+02			6.0E-04	9.0E-03			**0.12**
106990	1,3-Butadiene	1.91E+01	2.49E-01	1.08E-05	7.35E+02	3.01E+00	7.34E-02	25	268.60	425.00	5,370	**1.7E-04**	2.0E-03	5.41E+01			3.0E-05	0.0E+00			**5.67**
107028	Acrolein	2.76E+00	1.05E-01	1.22E-05	2.13E+05	4.99E-03	1.22E-04	25	325.60	506.00	6,731	0.0E+00	2.0E-05	5.61E+01			0.0E+00	2.0E-05			NC
107062	1,2-Dichloroethane	1.74E+01	1.04E-01	9.90E-06	8.52E+03	4.00E-02	9.77E-04	25	356.65	561.00	7,643	**2.1E-05**	**4.0E-01**	9.90E+01			2.6E-05	0.0E+00			**0.81**
107131	Acrylonitrile	5.90E+00	1.22E-01	1.34E-05	7.40E+04	4.21E-03	1.03E-04	25	350.30	519.00	7,786	**2.9E-04**	2.0E-03	5.31E+01			6.8E-05	2.0E-03			**4.26**
108054	Vinyl acetate	5.25E+00	8.49E-02	1.00E-05	2.00E+04	2.09E-02	5.11E-04	25	345.65	519.13	7,800	0.0E+00	**2.0E-01**	8.61E+01			0.0E+00	2.0E-01			NC
108101	Methylisobutylketone (4-methyl-2-p	9.06E+00	6.98E-02	8.35E-06	1.90E+04	5.64E-03	1.38E-04	25	389.50	571.00	8,243	0.0E+00	3.0E+00	1.00E+02			0.0E+00	8.0E-02			NC
108383	m-Xylene	4.07E+02	7.00E-02	7.80E-06	1.61E+02	3.00E-01	7.32E-03	25	412.27	617.05	8,523	0.0E+00	1.0E-01	1.06E+02		?	0.0E+00	1.0E-01			NC
108678	1,3,5-Trimethylbenzene	1.35E+03	6.02E-02	8.67E-06	2.00E+00	2.41E-01	5.87E-03	25	437.89	637.25	9,321	0.0E+00	6.0E-03	1.20E+02			0.0E+00	6.0E-03			NC
108872	Methylcyclohexane	7.85E+01	7.35E-02	8.52E-06	1.40E+01	4.22E+00	1.03E-01	25	373.90	572.20	7,474	0.0E+00	3.0E+00	9.82E+01			0.0E+00	3.0E+00			NC
108883	Toluene	1.82E+02	7.78E-02	9.20E-06	5.26E+02	2.72E-01	6.64E-03	25	383.78	591.79	7,930	0.0E+00	**5.0E+00**	9.21E+01			0.0E+00	4.0E-01			NC
108907	Chlorobenzene	2.19E+02	7.30E-02	8.70E-06	4.72E+02	1.51E-01	3.69E-03	25	404.87	632.40	8,410	0.0E+00	**1.0E+00**	1.13E+02			0.0E+00	6.0E-02			NC
109693	1-Chlorobutane	1.72E+01	8.26E-02	1.00E-05	1.10E+03	6.93E-01	1.69E-02	25	351.60	542.00	7,263	0.0E+00	1.4E+00	9.26E+01		X	0.0E+00	1.4E+00		X	NC
110009	Furan	1.86E+01	1.04E-01	1.22E-05	1.00E+04	2.21E-01	5.39E-03	25	304.60	490.20	6,477	0.0E+00	3.5E-03	6.81E+01		X	0.0E+00	3.5E-03		X	NC
110543	Hexane	4.34E+01	2.00E-01	7.77E-06	1.24E+01	6.82E+01	1.66E+00	25	341.70	508.00	6,895	0.0E+00	2.0E-01	8.62E+01			0.0E+00	2.0E-01			NC
111444	Bis(2-chloroethyl)ether	1.55E+01	6.92E-02	7.53E-06	1.72E+04	7.36E-04	1.80E-05	25	451.15	659.79	10,803	**7.1E-04**	0.0E+00	1.43E+02			3.3E-04	0.0E+00			**2.15**
115297	Endosulfan	2.14E+03	1.15E-02	4.55E-06	5.10E-01	4.58E-04	1.12E-05	25	674.43	942.94	14,000	0.0E+00	2.1E-02	4.07E+02		X	0.0E+00	2.1E-02		X	NC
118741	Hexachlorobenzene	5.50E+04	5.42E-02	5.91E-06	5.00E-03	5.40E-02	1.32E-03	25	582.55	825.00	14,447	**5.1E-04**	2.8E-03	2.85E+02		X	4.6E-04	2.8E-03		X	**1.11**
120821	1,2,4-Trichlorobenzene	1.78E+03	3.00E-02	8.23E-06	4.88E+01	5.81E-02	1.42E-03	25	486.15	725.00	10,471	0.0E+00	2.0E-01	1.81E+02			0.0E+00	2.0E-01			NC
123739	Crotonaldehyde (2-butenal)	4.82E+00	9.56E-02	1.07E-05	3.69E+04	7.99E-04	1.95E-05	25	375.20	568.00	9	5.4E-04	0.0E+00	7.01E+01	X		5.4E-04	0.0E+00	X		1.00
124481	Chlorodibromomethane	6.31E+01	1.96E-02	1.05E-05	2.60E+03	3.20E-02	7.81E-04	25	416.14	678.20	5,900	**2.7E-05**	7.0E-02	2.08E+02	?	X	2.4E-05	7.0E-02	X	X	**1.13**
126987	Methacrylonitrile	3.58E+01	1.12E-01	1.32E-05	2.54E+04	1.01E-02	2.46E-04	25	363.30	554.00	7,600	0.0E+00	7.0E-04	6.71E+01			0.0E+00	7.0E-04			NC
126998	2-Chloro-1,3-butadiene (chloropre	6.73E+01	8.58E-02	1.03E-05	2.12E+03	4.91E-01	1.20E-02	25	332.40	525.00	8,075	0.0E+00	7.0E-03	8.85E+01			0.0E+00	7.0E-03			NC
127184	Tetrachloroethylene	1.55E+02	5.05E-02	9.46E-06	2.00E+02	7.53E-01	1.77E-02	25	394.40	620.20	8,288	**2.6E-07**	**4.0E-02**	1.66E+02			3.0E-06	0.0E+00			**0.09**
129000	Pyrene	1.05E+05	2.72E-02	7.24E-06	1.35E+00	4.50E-04	1.10E-05	25	667.95	936	14370	0.0E+00	1.1E-01	2.02E+02		X	0.0E+00	1.1E-01		X	NC
132649	Dibenzofuran	5.15E+03	2.38E-02	6.00E-06	3.10E+00	5.15E-04	1.26E-05	25	560	824	66400	0.0E+00	1.4E-02	1.68E+02		X	0.0E+00	1.4E-02		X	NC
135988	sec-Butylbenzene	9.66E+02	5.70E-02	8.12E-06	3.94E+00	5.68E-01	1.39E-02	25	446.5	679	88730	0.0E+00	1.4E-01	1.34E+02		X	0.0E+00	1.4E-01		X	NC
141786	Ethylacetate	6.44E+00	7.32E-02	9.70E-06	8.03E+04	5.64E-03	1.38E-04	25	350.26	523.3	7633.66	0.0E+00	3.2E+00	8.81E+01		X	0.0E+00	3.2E+00		X	NC
156592	cis-1,2-Dichloroethylene	3.55E+01	8.84E-02	1.13E-05	3.50E+03	1.67E-01	4.08E-03	25	333.65	544	7192	0.0E+00		9.69E+01		X	0.0E+00	3.5E-02		X	NC
156605	trans-1,2-Dichloroethylene	5.25E+01	7.07E-02	1.19E-05	6.30E+03	3.84E-01	9.36E-03	25	320.85	516.5	6717	0.0E+00	7.0E-02	9.69E+01		X	0.0E+00	7.0E-02		X	NC
205992	Benzo(b)fluoranthene	1.23E+06	2.26E-02	5.56E-06	1.50E-03	4.54E-03	1.11E-04	25	715.9	969.27	17000	**1.1E-04**	0.0E+00	2.52E+02	?		2.1E-04	0.0E+00	X		**0.53**
218019	Chrysene	3.98E+05	2.48E-02	6.21E-06	6.30E-03	3.87E-03	9.44E-05	25	714.15	979	16455	**1.1E-05**	0.0E+00	2.28E+02	?		2.1E-06	0.0E+00	X		**5.26**
309002	Aldrin	2.45E+06	1.32E-02	4.86E-06	1.70E-02	6.95E-03	1.70E-04	25	603.01	839.37	15000	**4.9E-03**	1.1E-04	3.65E+02		X	4.9E-03	1.1E-04		X	**1.00**
319846	alpha-HCH (alpha-BHC)	1.23E+03	1.42E-02	7.34E-06	2.00E+00	4.34E-04	1.06E-05	25	596.55	839.36	15000	**7.7E-04**	0.0E+00	2.91E+02			1.8E-03	0.0E+00			**0.43**
541731	1,3-Dichlorobenzene	1.98E+03	6.92E-02	7.86E-06	1.34E+02	1.27E-01	3.09E-03	25	446	684	9230.18	0.0E+00	1.1E-01	1.47E+02		X	0.0E+00	1.1E-01		X	NC
542756	1,3-Dichloropropene	4.57E+01	6.26E-02	1.00E-05	2.80E+03	7.24E-01	1.77E-02	25	381.15	587.38	7900	**1.6E-05**	2.0E-02	1.11E+02			4.0E-06	2.0E-02			**4.00**
591786	2-Hexanone	1.50E+01	7.04E-02	8.44E-06	1.72E+04	3.81E-03	9.32E-05	25	401	60.1	8610	0.0E+00	3.0E-02	1.00E+02							
630206	1,1,1,2-Tetrachloroethane	1.16E+02	7.10E-02	7.90E-06	1.10E+03	9.90E-02	2.41E-03	25	403.5	624	9768.282525	7.4E-06	1.1E-01	1.68E+02		X	7.4E-06	1.1E-01		X	1.00
1634044	MTBE	7.26E+00	1.02E-01	1.05E-05	5.10E+04	2.56E-02	6.23E-04	25	328.3	497.1	6677.66	**2.6E-07**	3.0E+00	8.82E+01			0.0E+00	3.0E+00			**CalEPA only**
7439976	Mercury (elemental)	5.20E+01	3.07E-02	6.30E-06	2.00E+01	4.40E-01	1.07E-02	25	629.88	1750	14127	0.0E+00	**9.0E-05**	2.01E+02			0.0E+00	3.0E-04			NC

SG-ADV
Version 2.0; 02/03

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
78875	1.00E+00			1,2-Dichloropropane
78933	7.30E+01			Methylethylketone (2-butanone)
108101	3.40E+00			Methylisobutylketone (4-methyl-2-pentanone)
67641	3.60E+02			Acetone
71432	6.70E+00			Benzene
75252	3.10E+00			Bromoform
75150	3.10E+00			Carbon disulfide
56235	7.40E-01			Carbon tetrachloride
75003	3.10E+00			Chloroethane (ethyl chloride)
67663	3.50E+00			Chloroform
74873	8.70E-01			Methyl chloride (chloromethane)
156592	3.80E+00			cis-1,2-Dichloroethylene
100414	6.60E+00			Ethylbenzene
95476	3.30E+01			o-Xylene
75092	4.40E+00			Methylene chloride
100425	2.70E+00			Styrene
127184	3.40E+01			Tetrachloroethylene
108883	3.40E+01			Toluene
591786	4.60E+00			2-Hexanone
79016	9.20E+02			Trichloroethylene
108054	3.30E+01			Vinyl acetate

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	#N/A Soil gas sampling depth below grade, L_s (cm)	#N/A Average soil temperature, T_S (°C)	#N/A ENTER ENTER Totals must add up to value of Ls (cell F24): Thickness of soil stratum A, h_A (cm)	Thickness of soil stratum B, (Enter value or 0) h_B (cm)	Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
15	304.8	24	304.8			S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054		1.5	0.403	0.31		1.5	0.375	0.054

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	244	0.1	0.25	5

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	26	26	350

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization a the normal boiling point $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Compound
7.33E-02	9.73E-06	2.82E-03	25	7,590	369.52	572.00	112.99	1.0E-05	4.0E-03	1,2-Dichloropropane
9.14E-02	1.02E-05	5.69E-05	25	7,481	352.50	536.78	72.11	0.0E+00	5.0E+00	Methylethylketone (2-butanone)
6.98E-02	8.35E-06	1.38E-04	25	8,243	389.50	571.00	100.16	0.0E+00	3.0E+00	Methylisobutylketone (4-methyl-2-pentanone)
1.06E-01	1.15E-05	3.50E-05	25	6,955	329.20	508.10	58.08	0.0E+00	3.1E+01	Acetone
8.95E-02	1.03E-05	5.55E-03	25	7,342	353.24	562.16	78.11	7.8E-06	3.0E-02	Benzene
3.57E-02	1.04E-05	5.35E-04	25	9,479	422.35	696.00	252.75	1.1E-06	0.0E+00	Bromoform
1.06E-01	1.30E-05	1.44E-02	25	6,391	319.00	552.00	76.13	0.0E+00	7.0E-01	Carbon disulfide
5.71E-02	9.79E-06	2.76E-02	25	7,127	349.90	556.60	153.82	6.0E-06	1.0E-01	Carbon tetrachloride
1.04E-01	1.16E-05	1.11E-02	25	5,879	285.30	460.40	64.51	0.0E+00	1.0E+01	Chloroethane (ethyl chloride)
7.69E-02	1.09E-05	3.67E-03	25	6,988	334.32	536.40	119.38	2.3E-05	9.8E-02	Chloroform
1.24E-01	1.36E-05	8.82E-03	25	5,115	249.00	416.25	50.49	1.8E-06	9.0E-02	Methyl chloride (chloromethane)
8.84E-02	1.13E-05	4.08E-03	25	7,192	333.65	544.00	96.94	0.0E+00	0.0E+00	cis-1,2-Dichloroethylene
6.85E-02	8.46E-06	7.88E-03	25	8,501	409.34	617.20	106.17	2.5E-06	1.0E+00	Ethylbenzene
6.89E-02	8.53E-06	5.18E-03	25	8,661	417.60	630.30	106.17	0.0E+00	1.0E-01	o-Xylene
9.99E-02	1.25E-05	3.25E-03	25	6,706	313.00	510.00	84.93	1.0E-08	6.0E-01	Methylene chloride
7.11E-02	8.78E-06	2.75E-03	25	8,737	418.31	636.00	104.15	0.0E+00	1.0E+00	Styrene
5.05E-02	9.46E-06	1.77E-02	25	8,288	394.40	620.20	165.83	2.6E-07	4.0E-02	Tetrachloroethylene
7.78E-02	9.20E-06	6.64E-03	25	7,930	383.78	591.79	92.14	0.0E+00	5.0E+00	Toluene
7.04E-02	8.44E-06	9.32E-05	25	8,610	401.00	60.10	100.16	0.0E+00	3.0E-02	2-Hexanone
6.87E-02	1.02E-05	9.85E-03	25	7,505	360.36	544.20	131.39	4.1E-06	2.0E-03	Trichloroethylene
8.49E-02	1.00E-05	5.11E-04	25	7,800	345.65	519.13	86.09	0.0E+00	2.0E-01	Vinyl acetate

END

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
8.20E+08	289.8	0.321	0.093	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	1.00E+00	1.69E+04
										7.30E+01	
										3.40E+00	
										3.60E+02	
										6.70E+00	
										3.10E+00	
										3.10E+00	
										7.40E-01	
										3.10E+00	
										3.50E+00	
										8.70E-01	
										3.80E+00	
										6.60E+00	
										3.30E+01	
										4.40E+00	
										2.70E+00	
										3.40E+01	
										3.40E+01	
										9.20E+02	
										3.30E+01	

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.06E+06	5.00E-03	15	8,478	2.69E-03	1.10E-01	1.80E-04	1.18E-02	0.00E+00	0.00E+00	1.18E-02	289.8
			8,244	5.43E-05	2.23E-03	1.80E-04	1.48E-02	0.00E+00	0.00E+00	1.48E-02	
			9,673	1.30E-04	5.34E-03	1.80E-04	1.13E-02	0.00E+00	0.00E+00	1.13E-02	
			7,384	3.36E-05	1.38E-03	1.80E-04	1.71E-02	0.00E+00	0.00E+00	1.71E-02	
			7,977	5.30E-03	2.18E-01	1.80E-04	1.45E-02	0.00E+00	0.00E+00	1.45E-02	
			10,746	5.03E-04	2.06E-02	1.80E-04	5.77E-03	0.00E+00	0.00E+00	5.77E-03	
			6,572	1.39E-02	5.69E-01	1.80E-04	1.71E-02	0.00E+00	0.00E+00	1.71E-02	
			7,716	2.64E-02	1.08E+00	1.80E-04	9.23E-03	0.00E+00	0.00E+00	9.23E-03	
			5,740	1.07E-02	4.41E-01	1.80E-04	1.68E-02	0.00E+00	0.00E+00	1.68E-02	
			7,407	3.52E-03	1.44E-01	1.80E-04	1.24E-02	0.00E+00	0.00E+00	1.24E-02	
			4,578	8.59E-03	3.52E-01	1.80E-04	2.00E-02	0.00E+00	0.00E+00	2.00E-02	
			7,592	3.91E-03	1.60E-01	1.80E-04	1.43E-02	0.00E+00	0.00E+00	1.43E-02	
			9,994	7.45E-03	3.05E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			10,245	4.88E-03	2.00E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			6,884	3.13E-03	1.28E-01	1.80E-04	1.61E-02	0.00E+00	0.00E+00	1.61E-02	
			10,294	2.59E-03	1.06E-01	1.80E-04	1.15E-02	0.00E+00	0.00E+00	1.15E-02	
			9,410	1.68E-02	6.88E-01	1.80E-04	8.16E-03	0.00E+00	0.00E+00	8.16E-03	
			9,001	6.31E-03	2.59E-01	1.80E-04	1.26E-02	0.00E+00	0.00E+00	1.26E-02	
			7,418	8.94E-05	3.66E-03	1.80E-04	1.14E-02	0.00E+00	0.00E+00	1.14E-02	
			8,382	9.39E-03	3.85E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			8,559	4.87E-04	2.00E-02	1.80E-04	1.37E-02	0.00E+00	0.00E+00	1.37E-02	

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Compound	
15	1.00E+00	1.33	8.33E+01	1.18E-02	5.30E+03	5.79E+05	1.68E-03	1.68E-03	1.0E-05	4.0E-03	1,2-Dichloropropane	1.68E-03
	7.30E+01			1.48E-02		4.18E+04	1.93E-03	1.41E-01	NA	5.0E+00	Methylethylketone (2-butanone	1.93E-03
	3.40E+00			1.13E-02		1.13E+06	1.63E-03	5.54E-03	NA	3.0E+00	Methylisobutylketone (4-methy	1.63E-03
	3.60E+02			1.71E-02		9.64E+03	2.11E-03	7.60E-01	NA	3.1E+01	Acetone	2.11E-03
	6.70E+00			1.45E-02		5.24E+04	1.91E-03	1.28E-02	7.8E-06	3.0E-02	Benzene	1.91E-03
	3.10E+00			5.77E-03		6.79E+11	9.94E-04	3.08E-03	1.1E-06	NA	Bromoform	9.94E-04
	3.10E+00			1.71E-02		9.66E+03	2.11E-03	6.54E-03	NA	7.0E-01	Carbon disulfide	2.11E-03
	7.40E-01			9.23E-03		2.50E+07	1.42E-03	1.05E-03	6.0E-06	1.0E-01	Carbon tetrachloride	1.42E-03
	3.10E+00			1.68E-02		1.15E+04	2.09E-03	6.47E-03	NA	1.0E+01	Chloroethane (ethyl chloride)	2.09E-03
	3.50E+00			1.24E-02		3.11E+05	1.74E-03	6.08E-03	2.3E-05	9.8E-02	Chloroform	1.74E-03
	8.70E-01			2.00E-02		2.55E+03	2.30E-03	2.00E-03	1.8E-06	9.0E-02	Methyl chloride (chloromethan	2.30E-03
	3.80E+00			1.43E-02		6.00E+04	1.90E-03	7.20E-03	NA	NA	cis-1,2-Dichloroethylene	1.90E-03
	6.60E+00			1.11E-02		1.47E+06	1.61E-03	1.06E-02	2.5E-06	1.0E+00	Ethylbenzene	1.61E-03
	3.30E+01			1.11E-02		1.35E+06	1.61E-03	5.33E-02	NA	1.0E-01	o-Xylene	1.61E-03
	4.40E+00			1.61E-02		1.69E+04	2.04E-03	8.98E-03	1.0E-08	6.0E-01	Methylene chloride	2.04E-03
	2.70E+00			1.15E-02		8.73E+05	1.65E-03	4.45E-03	NA	1.0E+00	Styrene	1.65E-03
	3.40E+01			8.16E-03		2.31E+08	1.30E-03	4.41E-02	2.6E-07	4.0E-02	Tetrachloroethylene	1.30E-03
	3.40E+01			1.26E-02		2.69E+05	1.75E-03	5.95E-02	NA	5.0E+00	Toluene	1.75E-03
	9.20E+02			1.14E-02		1.01E+06	1.64E-03	1.51E+00	NA	3.0E-02	2-Hexanone	1.64E-03
	9.20E+02			1.11E-02		1.41E+06	1.61E-03	1.48E+00	4.1E-06	2.0E-03	Trichloroethylene	1.61E-03
	3.30E+01			1.37E-02		9.45E+04	1.85E-03	6.10E-02	NA	2.0E-01	Vinyl acetate	1.85E-03

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)	Compound
	6.0E-09	4.0E-04	1,2-Dichloropropane
	NA	2.7E-05	Methylethylketone (2-butanone)
	NA	1.8E-06	Methylisobutylketone (4-methyl-2-pentanone)
	NA	2.4E-05	Acetone
	3.6E-08	4.1E-04	Benzene
	1.2E-09	NA	Bromoform
	NA	9.0E-06	Carbon disulfide
	2.2E-09	1.0E-05	Carbon tetrachloride
	NA	6.2E-07	Chloroethane (ethyl chloride)
	5.0E-08	5.9E-05	Chloroform
	1.3E-09	2.1E-05	Methyl chloride (chloromethane)
	NA	NA	cis-1,2-Dichloroethylene
	9.5E-09	1.0E-05	Ethylbenzene
	NA	5.1E-04	o-Xylene
	3.2E-11	1.4E-05	Methylene chloride
	NA	4.3E-06	Styrene
	4.1E-09	1.1E-03	Tetrachloroethylene
	NA	1.1E-05	Toluene
	NA	4.8E-02	2-Hexanone
	2.2E-06	7.1E-01	Trichloroethylene
	NA	2.9E-04	Vinyl acetate
Sum	**2.3E-06**	**0.76**	

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

SCROLL DOWN TO "END"

END

SIL	0.76	0.00506	1.663	0.3987	0.439	0.065	0.011	1.49	0.180	Silt Loam	
SL	1.60	0.02667	1.449	0.3099	0.387	0.039	0.030	1.62	0.103	Sandy Loam	

Chemical Properties Lookup Table

CalEPA Toxicity Criteria in bold (last updated 1/21/05 DTSC/HERD)

CAS No.	Chemical	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Pure component water solubility, S (mg/L)	Henry's law constant H' (unitless)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
56235	Carbon tetrachloride	1.74E+02	5.71E-02	9.79E-06	7.93E+02	1.24E+00	2.76E-02	25	349.90	556.60	7,127	**6.0E-06**	**1.0E-01**	1.54E+02
57749	Chlordane	1.20E+05	1.18E-02	4.37E-06	5.60E-02	1.99E-03	4.85E-05	25	624.24	885.73	14,000	**3.4E-04**	7.0E-04	4.10E+02
58899	gamma-HCH (Lindane)	1.07E+03	1.42E-02	7.34E-06	7.30E+00	5.73E-04	1.40E-05	25	596.55	839.36	15,000	**3.1E-04**	1.1E-03	2.91E+02
60297	Ethyl ether	5.73E+00	7.82E-02	8.61E-06	5.68E+04	1.35E+00	3.29E-02	25	307.50	466.74	6,338	0.0E+00	7.0E-01	7.41E+01
60571	Dieldrin	2.14E+04	1.25E-02	4.74E-06	1.95E-01	6.18E-04	1.51E-05	25	613.32	842.25	17,000	**4.6E-03**	1.8E-04	3.81E+02
67641	Acetone	5.75E-01	1.06E-01	1.15E-05	1.00E+06	1.59E-03	3.50E-05	25	329.20	508.10	6,955	0.0E+00	3.1E+01	5.81E+01
67663	Chloroform	3.98E+01	7.69E-02	1.09E-05	7.92E+03	1.50E-01	3.67E-03	25	334.32	536.40	6,988	**2.3E-05**	**9.8E-02**	1.19E+02
67721	Hexachloroethane	1.78E+03	2.50E-03	6.80E-06	5.00E+01	1.59E-01	3.88E-03	25	458.00	695.00	9,510	**1.1E-05**	3.5E-03	2.37E+02
71432	Benzene	5.89E+01	8.95E-02	1.03E-05	1.79E+03	2.27E-01	5.55E-03	25	353.24	562.16	7,342	**7.8E-06**	**3.0E-02**	7.81E+01
71556	1,1,1-Trichloroethane	1.10E+02	7.80E-02	8.80E-06	1.33E+03	7.03E-01	1.72E-02	25	347.24	545.00	7,136	0.0E+00	**1.0E+00**	1.33E+02
72435	Methoxychlor	9.77E+04	1.56E-02	4.46E-06	1.00E-01	6.46E-04	1.58E-05	25	651.02	848.49	16,000	0.0E+00	1.8E-02	3.46E+02
72559	DDE	4.47E+06	1.44E-02	5.87E-06	1.20E-01	8.59E-04	2.09E-05	25	636.44	860.38	15,000	**9.7E-05**	0.0E+00	3.18E+02
74839	Methyl bromide	1.05E+01	7.28E-02	1.21E-05	1.52E+04	2.55E-01	6.22E-03	25	276.71	467.00	5,714	0.0E+00	**5.0E-03**	9.49E+01
74873	Methyl chloride (chloromethane)	2.12E+00	1.24E-01	1.36E-05	5.33E+03	3.61E-01	8.82E-03	25	249.00	416.25	5,115	1.8E-06	9.0E-02	5.05E+01
74908	Hydrogen cyanide	3.80E+00	1.93E-01	2.10E-05	1.00E+06	5.44E-03	1.33E-04	25	299.00	456.70	6,676	0.0E+00	3.0E-03	2.70E+01
74953	Methylene bromide	1.26E+01	4.30E-02	8.44E-06	1.19E+04	3.52E-02	8.59E-04	25	370.00	583.00	7,868	0.0E+00	3.5E-02	1.74E+02
75003	Chloroethane (ethyl chloride)	4.40E+00	1.04E-01	1.16E-05	5.68E+03	3.61E-01	1.11E-02	25	285.30	460.40	5,879		1.0E+01	6.45E+01
75014	Vinyl chloride (chloroethene)	1.86E+01	1.06E-01	1.23E-05	8.80E+03	1.10E+00	2.69E-02	25	259.25	432.00	5,250	**7.8E-05**	1.0E-01	6.25E+01
75058	Acetonitrile	4.20E+00	1.28E-01	1.66E-05	1.00E+06	1.42E-03	3.45E-05	25	354.60	545.50	7,110	0.0E+00	6.0E-02	4.11E+01
75070	Acetaldehyde	1.06E+00	1.24E-01	1.41E-05	1.00E+06	3.23E-03	7.87E-05	25	293.10	466.00	6,157	**2.7E-06**	**9.0E-03**	4.41E+01
75092	Methylene chloride	1.17E+01	9.99E-02	1.25E-05	1.30E+04	8.96E-02	3.25E-03	25	313.00	510.00	6,706	**1.0E-08**	**6.0E-01**	8.49E+01
75150	Carbon disulfide	4.57E+01	1.06E-01	1.30E-05	1.19E+03	1.24E+00	1.44E-02	25	319.00	552.00	6,391	0.0E+00	7.0E-01	7.61E+01
75218	Ethylene oxide	1.33E+00	1.04E-01	1.45E-05	3.04E+05	2.27E-02	5.54E-04	25	283.60	469.00	6,104	**8.8E-05**	**3.0E-02**	4.41E+01
75252	Bromoform	8.71E+01	3.57E-02	1.04E-05	3.10E+03	2.41E-02	5.35E-04	25	422.35	696.00	9,479	1.1E-06		2.53E+02
75274	Bromodichloromethane	5.50E+01	2.98E-02	1.06E-05	6.74E+03	6.54E-02	1.60E-03	25	363.15	585.85	7,800	**3.7E-05**	7.0E-02	1.64E+02
75296	2-Chloropropane	9.14E+00	8.88E-02	1.01E-05	3.73E+03	5.93E-01	1.45E-02	25	308.70	485.00	6,286	0.0E+00	1.0E-01	7.85E+01
75343	1,1-Dichloroethane	3.16E+01	7.42E-02	1.05E-05	5.06E+03	2.30E-01	5.61E-03	25	330.55	523.00	6,895	**1.6E-06**	5.0E-01	9.90E+01
75354	1,1-Dichloroethylene	5.89E+01	9.00E-02	1.04E-05	2.25E+03	1.07E+00	2.60E-02	25	304.75	576.05	6,247	0.0E+00	**7.0E-02**	9.69E+01
75456	Chlorodifluoromethane	4.79E+01	1.01E-01	1.28E-05	2.00E+00	1.10E+00	2.70E-02	25	232.40	369.30	4,836	0.0E+00	5.0E+01	8.65E+01
75694	Trichlorofluoromethane	4.97E+02	8.70E-02	9.70E-06	1.10E+03	3.97E+00	9.68E-02	25	296.70	471.00	5,999	0.0E+00	7.0E-01	1.37E+02
75718	Dichlorodifluoromethane	4.57E+02	6.65E-02	9.92E-06	2.80E+02	1.40E+01	3.42E-01	25	243.20	384.95	9,421	0.0E+00	2.0E-01	1.21E+02
76131	1,1,2-Trichloro-1,2,2-trifluoroethar	1.11E+04	7.80E-02	8.20E-06	1.70E+02	1.97E+01	4.80E-01	25	320.70	487.30	6,463	0.0E+00	3.0E+01	1.87E+02
76448	Heptachlor	1.41E+06	1.12E-02	5.69E-06	1.80E-01	6.05E+01	1.48E+00	25	603.69	846.31	13,000	**1.6E-03**	1.8E-03	3.73E+02
77474	Hexachlorocyclopentadiene	2.00E+05	1.61E-02	7.21E-06	1.80E+00	1.10E+00	2.69E-02	25	512.15	746.00	10,931	0.0E+00	2.0E-04	2.73E+02
78831	Isobutanol	2.59E+00	8.60E-02	9.30E-06	8.50E+04	4.83E-04	1.18E-05	25	381.04	547.78	10,936	0.0E+00	1.1E+00	7.41E+01
78875	1,2-Dichloropropane	4.37E+01	7.33E-02	9.73E-06	2.80E+03	1.15E-01	2.82E-03	25	369.52	572.00	7,590	**1.0E-05**	4.0E-03	1.13E+02
78933	Methylethylketone (2-butanone)	2.30E+00	9.14E-02	1.02E-05	2.23E+05	2.29E-03	5.69E-05	25	352.50	536.78	7,481	0.0E+00	5.0E+00	7.21E+01
79005	1,1,2-Trichloroethane	5.01E+01	7.80E-02	8.80E-06	4.42E+03	3.73E-02	9.11E-04	25	386.15	602.00	8,322	**1.6E-05**	1.4E-02	1.33E+02
79016	Trichloroethylene	1.66E+02	6.87E-02	1.02E-05	1.47E+03	4.21E-01	9.85E-03	25	360.36	544.20	7,505	**4.1E-06**	**2.0E-03**	1.31E+02
79209	Methyl acetate	3.26E+00	1.04E-01	1.00E-05	2.00E+03	4.84E-03	1.18E-04	25	329.80	506.70	7,260	0.0E+00	3.5E+00	7.41E+01
79345	1,1,2,2-Tetrachloroethane	9.33E+01	7.10E-02	7.90E-06	2.96E+03	1.41E-02	3.44E-04	25	419.60	661.15	8,996	**5.8E-05**	2.1E-01	1.68E+02
79469	2-Nitropropane	1.17E+01	9.23E-02	1.01E-05	1.70E+04	5.03E-03	1.23E-04	25	393.20	594.00	8,383	2.7E-03	2.0E-02	8.91E+01
80626	Methylmethacrylate	6.98E+00	7.70E-02	8.60E-06	1.50E+04	1.38E-02	3.36E-04	25	373.50	567.00	8,975	0.0E+00	7.0E-01	1.00E+02
83329	Acenaphthene	7.08E+03	4.21E-02	7.69E-06	3.57E+00	6.34E-03	1.55E-04	25	550.54	803.15	12,155	0.0E+00	2.1E-01	1.54E+02
86737	Fluorene	1.38E+04	3.63E-02	7.88E-06	1.98E+00	2.60E-03	6.34E-05	25	570.44	870.00	12,666	0.0E+00	1.4E-01	1.66E+02
87683	Hexachloro-1,3-butadiene	5.37E+04	5.61E-02	6.16E-06	3.20E+00	3.33E-01	8.13E-03	25	486.15	738.00	10,206	2.2E-05	7.0E-04	2.61E+02
88722	o-Nitrotoluene	3.24E+02	5.87E-02	8.67E-06	6.50E+02	5.11E-04	1.25E-05	25	495.00	720.00	12,239	0.0E+00	3.5E-02	1.37E+02
91203	Naphthalene	2.00E+03	5.90E-02	7.50E-06	3.10E+01	1.98E-02	4.82E-04	25	491.14	748.40	10,373	**3.4E-05**	3.0E-03	1.28E+02
91576	2-Methylnaphthalene	2.81E+03	5.22E-02	7.75E-06	2.46E+01	2.12E-02	5.17E-04	25	514.26	761.00	12,600	0.0E+00	7.0E-02	1.42E+02
92524	Biphenyl	4.38E+03	4.04E-02	8.15E-06	7.45E+00	1.23E-02	2.99E-04	25	529.10	789.00	10,890	0.0E+00	1.8E-01	1.54E+02
95476	o-Xylene	3.63E+02	6.89E-02	8.53E-06	1.78E+02	2.12E-01	5.18E-03	25	417.60	630.30	8,661	0.0E+00	1.0E-01	1.06E+02
95501	1,2-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	1.56E+02	7.77E-02	1.90E-03	25	453.57	705.00	9,700	0.0E+00	2.0E-01	1.47E+02
95578	2-Chlorophenol	3.88E+02	5.01E-02	9.46E-06	2.20E+04	1.60E-02	3.90E-04	25	447.53	675.00	9,572	0.0E+00	1.8E-02	1.29E+02
95636	1,2,4-Trimethylbenzene	1.35E+03	6.06E-02	7.92E-06	5.70E+01	2.52E-01	6.14E-03	25	442.30	649.17	9,369	0.0E+00	6.0E-03	1.20E+02
96184	1,2,3-Trichloropropane	2.20E+01	7.10E-02	7.90E-06	1.75E+03	1.67E-02	4.08E-04	25	430.00	652.00	9,171	5.7E-04	4.9E-03	1.47E+02

96333	Methyl acrylate	4.53E+00	9.76E-02	1.02E-05	6.00E+04	7.68E-03	1.87E-04	25	353.70	536.00	7,749	0.0E+00	1.1E-01	8.61E+01
97632	Ethylmethacrylate	2.95E+01	6.53E-02	8.37E-06	3.67E+03	3.44E-02	8.40E-04	25	390.00	571.00	10,957	0.0E+00	3.2E-01	1.14E+02
98066	tert-Butylbenzene	7.71E+02	5.65E-02	8.02E-06	2.95E+01	4.87E-01	1.19E-02	25	442.10	1220.00	8,980	0.0E+00	1.4E-01	1.34E+02
98828	Cumene	4.89E+02	6.50E-02	7.10E-06	6.13E+01	4.74E+01	1.16E+00	25	425.56	631.10	10,335	0.0E+00	4.0E-01	1.20E+02
98862	Acetophenone	5.77E+01	6.00E-02	8.73E-06	6.13E+03	4.38E-04	1.07E-05	25	475.00	709.50	11,732	0.0E+00	3.5E-01	1.20E+02
98953	Nitrobenzene	6.46E+01	7.60E-02	8.60E-06	2.09E+03	9.82E-04	2.39E-05	25	483.95	719.00	10,566	0.0E+00	2.0E-03	1.23E+02
100414	Ethylbenzene	3.63E+02	6.85E-02	8.46E-06	1.69E+02	3.22E-01	7.88E-03	25	409.34	617.20	8,501	2.5E-06	1.0E+00	1.06E+02
100425	Styrene	7.76E+02	7.11E-02	8.78E-06	3.10E+02	1.12E-01	2.75E-03	25	418.31	636.00	8,737	0.0E+00	**1.0E+00**	1.04E+02
100447	Benzylchloride	6.14E+01	7.50E-02	7.80E-06	5.25E+02	1.70E-02	4.14E-04	25	452.00	685.00	8,773	**4.9E-05**	0.0E+00	1.27E+02
100527	Benzaldehyde	4.59E+01	7.21E-02	9.07E-06	3.30E+03	9.73E-04	2.37E-05	25	452.00	695.00	11,658	0.0E+00	3.5E-01	1.06E+02
103651	n-Propylbenzene	5.62E+02	6.01E-02	7.83E-06	6.00E+01	4.37E-01	1.07E-02	25	432.20	630.00	9,123	0.0E+00	1.4E-01	1.20E+02
104518	n-Butylbenzene	1.11E+03	5.70E-02	8.12E-06	2.00E+00	5.38E-01	1.31E-02	25	456.46	660.50	9,290	0.0E+00	1.4E-01	1.34E+02
106423	p-Xylene	3.89E+02	7.69E-02	8.44E-06	1.85E+02	3.13E-01	7.64E-03	25	411.52	616.20	8,525	0.0E+00	1.0E-01	1.06E+02
106467	1,4-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	7.90E+01	9.82E-02	2.39E-03	25	447.21	684.75	9,271	**1.1E-05**	**8.0E-01**	1.47E+02
106934	1,2-Dibromoethane (ethylene dibr	2.50E+01	2.17E-02	1.19E-05	4.18E+03	3.04E-02	7.41E-04	25	404.60	583.00	8,310	**7.1E-05**	**8.0E-04**	1.88E+02
106990	1,3-Butadiene	1.91E+01	2.49E-01	1.08E-05	7.35E+02	3.01E+00	7.34E-02	25	268.60	425.00	5,370	**1.7E-04**	2.0E-03	5.41E+01
107028	Acrolein	2.76E+00	1.05E-01	1.22E-05	2.13E+05	4.99E-03	1.22E-04	25	325.60	506.00	6,731	0.0E+00	2.0E-05	5.61E+01
107062	1,2-Dichloroethane	1.74E+01	1.04E-01	9.90E-06	8.52E+03	4.00E-02	9.77E-04	25	356.65	561.00	7,643	**2.1E-05**	**4.0E-01**	9.90E+01
107131	Acrylonitrile	5.90E+00	1.22E-01	1.34E-05	7.40E+04	4.21E-03	1.03E-04	25	350.30	519.00	7,786	**2.9E-04**	2.0E-03	5.31E+01
108054	Vinyl acetate	5.25E+00	8.49E-02	1.00E-05	2.00E+04	2.09E-02	5.11E-04	25	345.65	519.13	7,800	0.0E+00	**2.0E-01**	8.61E+01
108101	Methylisobutylketone (4-methyl-2-	9.06E+00	6.98E-02	8.35E-06	1.90E+04	5.64E-03	1.38E-04	25	389.50	571.00	8,243	0.0E+00	3.0E+00	1.00E+02
108383	m-Xylene	4.07E+02	7.00E-02	7.80E-06	1.61E+02	3.00E-01	7.32E-03	25	412.27	617.05	8,523	0.0E+00	1.0E-01	1.06E+02
108678	1,3,5-Trimethylbenzene	1.35E+03	6.02E-02	8.67E-06	2.00E+00	2.41E-01	5.87E-03	25	437.89	637.25	9,321	0.0E+00	6.0E-03	1.20E+02
108872	Methylcyclohexane	7.85E+01	7.35E-02	8.52E-06	1.40E+01	4.22E+00	1.03E-01	25	373.90	572.20	7,474	0.0E+00	3.0E+00	9.82E+01
108883	Toluene	1.82E+02	7.78E-02	9.20E-06	5.26E+02	2.72E-01	6.64E-03	25	383.78	591.79	7,930	0.0E+00	**5.0E+00**	9.21E+01
108907	Chlorobenzene	2.19E+02	7.30E-02	8.70E-06	4.72E+02	1.51E-01	3.69E-03	25	404.87	632.40	8,410	0.0E+00	**1.0E+00**	1.13E+02
109693	1-Chlorobutane	1.72E+01	8.26E-02	1.00E-05	1.10E+03	6.93E-01	1.69E-02	25	351.60	542.00	7,263	0.0E+00	1.4E+00	9.26E+01
110009	Furan	1.86E+01	1.04E-01	1.22E-05	1.00E+04	2.21E-01	5.39E-03	25	304.60	490.20	6,477	0.0E+00	3.5E-03	6.81E+01
110543	Hexane	4.34E+01	2.00E-01	7.77E-06	1.24E+01	6.82E+01	1.66E+00	25	341.70	508.00	6,895	0.0E+00	2.0E-01	8.62E+01
111444	Bis(2-chloroethyl)ether	1.55E+01	6.92E-02	7.53E-06	1.72E+04	7.36E-04	1.80E-05	25	451.15	659.79	10,803	**7.1E-04**	0.0E+00	1.43E+02
115297	Endosulfan	2.14E+03	1.15E-02	4.55E-06	5.10E-01	4.58E-04	1.12E-05	25	674.43	942.94	14,000	0.0E+00	2.1E-02	4.07E+02
118741	Hexachlorobenzene	5.50E+04	5.42E-02	5.91E-06	5.00E-03	5.40E-02	1.32E-03	25	582.55	825.00	14,447	**5.1E-04**	2.8E-03	2.85E+02
120821	1,2,4-Trichlorobenzene	1.78E+03	3.00E-02	8.23E-06	4.88E+01	5.81E-02	1.42E-03	25	486.15	725.00	10,471	0.0E+00	2.0E-01	1.81E+02
123739	Crotonaldehyde (2-butenal)	4.82E+00	9.56E-02	1.07E-05	3.69E+04	7.99E-04	1.95E-05	25	375.20	568.00	9	5.4E-04	0.0E+00	7.01E+01
124481	Chlorodibromomethane	6.31E+01	1.96E-02	1.05E-05	2.60E+03	3.20E-02	7.81E-04	25	416.14	678.20	5,900	**2.7E-05**	7.0E-02	2.08E+02
126987	Methacrylonitrile	3.58E+01	1.12E-01	1.32E-05	2.54E+04	1.01E-02	2.46E-04	25	363.30	554.00	7,600	0.0E+00	7.0E-04	6.71E+01
126998	2-Chloro-1,3-butadiene (chloropre	6.73E+01	8.58E-02	1.03E-05	2.12E+03	4.91E-01	1.20E-02	25	332.40	525.00	8,075	0.0E+00	7.0E-03	8.85E+01
127184	Tetrachloroethylene	1.55E+02	5.05E-02	9.46E-06	2.00E+02	7.53E-01	1.77E-02	25	394.40	620.20	8,288	**2.6E-07**	**4.0E-02**	1.66E+02
129000	Pyrene	1.05E+05	2.72E-02	7.24E-06	1.35E+00	4.50E-04	1.10E-05	25	667.95	936	14370	0.0E+00	1.1E-01	2.02E+02
132649	Dibenzofuran	5.15E+03	2.38E-02	6.00E-06	3.10E+00	5.15E-04	1.26E-05	25	560	824	66400	0.0E+00	1.4E-02	1.68E+02
135988	sec-Butylbenzene	9.66E+02	5.70E-02	8.12E-06	3.94E+00	5.68E-01	1.39E-02	25	446.5	679	88730	0.0E+00	1.4E-01	1.34E+02
141786	Ethylacetate	6.44E+00	7.32E-02	9.70E-06	8.03E+04	5.64E-03	1.38E-04	25	350.26	523.3	7633.66	0.0E+00	3.2E+00	8.81E+01
156592	cis-1,2-Dichloroethylene	3.55E+01	8.84E-02	1.13E-05	3.50E+03	1.67E-01	4.08E-03	25	333.65	544	7192	0.0E+00		9.69E+01
156605	trans-1,2-Dichloroethylene	5.25E+01	7.07E-02	1.19E-05	6.30E+03	3.84E-01	9.36E-03	25	320.85	516.5	6717	0.0E+00	7.0E-02	9.69E+01
205992	Benzo(b)fluoranthene	1.23E+06	2.26E-02	5.56E-06	1.50E-03	4.54E-03	1.11E-04	25	715.9	969.27	17000	**1.1E-04**	0.0E+00	2.52E+02
218019	Chrysene	3.98E+05	2.48E-02	6.21E-06	6.30E-03	3.87E-03	9.44E-05	25	714.15	979	16455	**1.1E-05**	0.0E+00	2.28E+02
309002	Aldrin	2.45E+06	1.32E-02	4.86E-06	1.70E-02	6.95E-03	1.70E-04	25	603.01	839.37	15000	**4.9E-03**	1.1E-04	3.65E+02
319846	alpha-HCH (alpha-BHC)	1.23E+03	1.42E-02	7.34E-06	2.00E+00	4.34E-04	1.06E-05	25	596.55	839.36	15000	**7.7E-04**	0.0E+00	2.91E+02
541731	1,3-Dichlorobenzene	1.98E+03	6.92E-02	7.86E-06	1.34E+02	1.27E-01	3.09E-03	25	446	684	9230.18	0.0E+00	1.1E-01	1.47E+02
542756	1,3-Dichloropropene	4.57E+01	6.26E-02	1.00E-05	2.80E+03	7.24E-01	1.77E-02	25	381.15	587.38	7900	**1.6E-05**	2.0E-02	1.11E+02
591786	2-Hexanone	1.50E+01	7.04E-02	8.44E-06	1.72E+04	3.81E-03	9.32E-05	25	401	60.1	8610	0.0E+00	3.0E-02	1.00E+02
630206	1,1,1,2-Tetrachloroethane	1.16E+02	7.10E-02	7.90E-06	1.10E+03	9.90E-02	2.41E-03	25	403.5	624	9768.282525	7.4E-06	1.1E-01	1.68E+02
1634044	MTBE	7.26E+00	1.02E-01	1.05E-05	5.10E+04	2.56E-02	6.23E-04	25	328.3	497.1	6677.66	**2.6E-07**	3.0E+00	8.82E+01
7439976	Mercury (elemental)	5.20E+01	3.07E-02	6.30E-06	2.00E+01	4.40E-01	1.07E-02	25	629.88	1750	14127	0.0E+00	**9.0E-05**	2.01E+02

URF extrapolated (X)	RfC extrapolated (X)	Original EPA Values: Unit risk factor, URF $(\mu g/m^3)^{-1}$	Original EPA Values: Reference conc., RfC (mg/m^3)	Original EPA Values: URF extrapolated (X)	Original EPA Values: RfC extrapolated (X)	CalEPA / USEPA Potency Ratio
		1.5E-05	0.0E+00			**0.40**
		1.0E-04	7.0E-04			**3.40**
?	X	3.7E-04	1.1E-03	X	X	**0.84**
	X	0.0E+00	7.0E-01		X	NC
	X	4.6E-03	1.8E-04		X	**1.00**
	X	0.0E+00	3.5E-01		X	NC
		2.3E-05	0.0E+00			**1.00**
	X	4.0E-06	3.5E-03		X	**2.75**
		7.8E-06	0.0E+00			**1.00**
		0.0E+00	2.2E+00			NC
	X	0.0E+00	1.8E-02		X	NC
?		9.7E-05	0.0E+00	X		**1.00**
		0.0E+00	5.0E-03			NC
		1.0E-06	9.0E-02			1.80
		0.0E+00	3.0E-03			NC
	X	0.0E+00	3.5E-02		X	NC
X		8.3E-07	1.0E+01	X		0.00
		8.8E-06	1.0E-01			**8.86**
		0.0E+00	6.0E-02			NC
		2.2E-06	9.0E-03			**1.23**
		4.7E-07	3.0E+00			**0.02**
		0.0E+00	7.0E-01			NC
		1.0E-04	0.0E+00			**0.88**
	X	1.1E-06	7.0E-02		X	1.00
?	X	1.8E-05	7.0E-02	X	X	**2.09**
		0.0E+00	1.0E-01			NC
		0.0E+00	5.0E-01			**CalEPA only**
		0.0E+00	2.0E-01			NC
		0.0E+00	5.0E+01			NC
		0.0E+00	7.0E-01			NC
		0.0E+00	2.0E-01			NC
		0.0E+00	3.0E+01			NC
	X	1.3E-03	1.8E-03		X	**1.23**
		0.0E+00	2.0E-04			NC
	X	0.0E+00	1.1E+00		X	NC
?		1.9E-05	4.0E-03	X		**0.52**
		0.0E+00	1.0E+00			NC
	X	1.6E-05	1.4E-02		X	**1.00**
?		1.1E-04	4.0E-02	X		**0.04**
	X	0.0E+00	3.5E+00		X	NC
	X	5.8E-05	2.1E-01		X	**1.00**
		2.7E-03	2.0E-02			1.00
		0.0E+00	7.0E-01			NC
	X	0.0E+00	2.1E-01		X	NC
	X	0.0E+00	1.4E-01		X	NC
	X	2.2E-05	7.0E-04		X	1.00
	X	0.0E+00	3.5E-02		X	NC
		0.0E+00	3.0E-03			NC
	X	0.0E+00	7.0E-02		X	NC
	X	0.0E+00	1.8E-01		X	NC
	?	0.0E+00	1.0E-01			NC
		0.0E+00	2.0E-01			NC
	X	0.0E+00	1.8E-02		X	NC
		0.0E+00	6.0E-03			NC
X		5.7E-04	4.9E-03	X		1.00

	X	0.0E+00	1.1E-01		X	NC
	X	0.0E+00	3.2E-01		X	NC
	X	0.0E+00	1.4E-01		X	NC
		0.0E+00	4.0E-01			NC
	X	0.0E+00	3.5E-01		X	NC
		0.0E+00	2.0E-03			NC
		0.0E+00	1.0E+00			NC
		0.0E+00	1.0E+00			NC
?		4.9E-05	0.0E+00	X		**1.00**
	X	0.0E+00	3.5E-01		X	NC
	X	0.0E+00	1.4E-01		X	NC
	X	0.0E+00	1.4E-01		X	NC
	?	0.0E+00	1.0E-01			NC
		0.0E+00	8.0E-01			**CalEPA only**
		6.0E-04	9.0E-03			**0.12**
		3.0E-05	0.0E+00			**5.67**
		0.0E+00	2.0E-05			NC
		2.6E-05	0.0E+00			**0.81**
		6.8E-05	2.0E-03			**4.26**
		0.0E+00	2.0E-01			NC
		0.0E+00	8.0E-02			NC
	?	0.0E+00	1.0E-01			NC
		0.0E+00	6.0E-03			NC
		0.0E+00	3.0E+00			NC
		0.0E+00	4.0E-01			NC
		0.0E+00	6.0E-02			NC
	X	0.0E+00	1.4E+00		X	NC
	X	0.0E+00	3.5E-03		X	NC
		0.0E+00	2.0E-01			NC
		3.3E-04	0.0E+00			**2.15**
	X	0.0E+00	2.1E-02		X	NC
	X	4.6E-04	2.8E-03		X	**1.11**
		0.0E+00	2.0E-01			NC
X		5.4E-04	0.0E+00	X		1.00
?	X	2.4E-05	7.0E-02	X	X	**1.13**
		0.0E+00	7.0E-04			NC
		0.0E+00	7.0E-03			NC
		3.0E-06	0.0E+00			**0.09**
	X	0.0E+00	1.1E-01		X	NC
	X	0.0E+00	1.4E-02		X	NC
	X	0.0E+00	1.4E-01		X	NC
	X	0.0E+00	3.2E+00		X	NC
	X	0.0E+00	3.5E-02		X	NC
	X	0.0E+00	7.0E-02		X	NC
?		2.1E-04	0.0E+00	X		**0.53**
?		2.1E-06	0.0E+00	X		**5.26**
	X	4.9E-03	1.1E-04		X	**1.00**
		1.8E-03	0.0E+00			**0.43**
	X	0.0E+00	1.1E-01		X	NC
		4.0E-06	2.0E-02			**4.00**
	X	7.4E-06	1.1E-01		X	1.00
		0.0E+00	3.0E+00			**CalEPA only**
		0.0E+00	3.0E-04			NC

SG-ADV
Version 2.0; 02/03

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
78875	1.10E+00			1,2-Dichloropropane
78933	5.20E+01			Methylethylketone (2-butanone)
108101	6.10E+00			Methylisobutylketone (4-methyl-2-pentanone)
67641	4.20E+02			Acetone
71432	3.90E+00			Benzene
75252	7.40E-01			Bromoform
75150	7.60E+01			Carbon disulfide
56235	7.60E-01			Carbon tetrachloride
75003	1.00E+00			Chloroethane (ethyl chloride)
67663	7.80E-01			Chloroform
74873	1.60E+00			Methyl chloride (chloromethane)
156592	2.30E+00			cis-1,2-Dichloroethylene
100414	6.70E+00			Ethylbenzene
95476	3.50E+01			o-Xylene
75092	5.10E+00			Methylene chloride
100425	3.40E+00			Styrene
127184	2.90E+01			Tetrachloroethylene
108883	3.80E+01			Toluene
591786	4.80E+00			2-Hexanone
79016	2.80E+02			Trichloroethylene
108054	5.80E+01			Vinyl acetate

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	#N/A Soil gas sampling depth below grade, L_s (cm)	#N/A Average soil temperature, T_S (°C)	#N/A Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152.4	24	152.4			S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054		1.5	0.403	0.31		1.5	0.375	0.054

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	244	0.1	0.5	5

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization a the normal boiling point $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Compound
7.33E-02	9.73E-06	2.82E-03	25	7,590	369.52	572.00	112.99	1.0E-05	4.0E-03	1,2-Dichloropropane
9.14E-02	1.02E-05	5.69E-05	25	7,481	352.50	536.78	72.11	0.0E+00	5.0E+00	Methylethylketone (2-butanone)
6.98E-02	8.35E-06	1.38E-04	25	8,243	389.50	571.00	100.16	0.0E+00	3.0E+00	Methylisobutylketone (4-methyl-2-pentanone)
1.06E-01	1.15E-05	3.50E-05	25	6,955	329.20	508.10	58.08	0.0E+00	3.1E+01	Acetone
8.95E-02	1.03E-05	5.55E-03	25	7,342	353.24	562.16	78.11	7.8E-06	3.0E-02	Benzene
3.57E-02	1.04E-05	5.35E-04	25	9,479	422.35	696.00	252.75	1.1E-06	0.0E+00	Bromoform
1.06E-01	1.30E-05	1.44E-02	25	6,391	319.00	552.00	76.13	0.0E+00	7.0E-01	Carbon disulfide
5.71E-02	9.79E-06	2.76E-02	25	7,127	349.90	556.60	153.82	6.0E-06	1.0E-01	Carbon tetrachloride
1.04E-01	1.16E-05	1.11E-02	25	5,879	285.30	460.40	64.51	0.0E+00	1.0E+01	Chloroethane (ethyl chloride)
7.69E-02	1.09E-05	3.67E-03	25	6,988	334.32	536.40	119.38	2.3E-05	9.8E-02	Chloroform
1.24E-01	1.36E-05	8.82E-03	25	5,115	249.00	416.25	50.49	1.8E-06	9.0E-02	Methyl chloride (chloromethane)
8.84E-02	1.13E-05	4.08E-03	25	7,192	333.65	544.00	96.94	0.0E+00	0.0E+00	cis-1,2-Dichloroethylene
6.85E-02	8.46E-06	7.88E-03	25	8,501	409.34	617.20	106.17	2.5E-06	1.0E+00	Ethylbenzene
6.89E-02	8.53E-06	5.18E-03	25	8,661	417.60	630.30	106.17	0.0E+00	1.0E-01	o-Xylene
9.99E-02	1.25E-05	3.25E-03	25	6,706	313.00	510.00	84.93	1.0E-08	6.0E-01	Methylene chloride
7.11E-02	8.78E-06	2.75E-03	25	8,737	418.31	636.00	104.15	0.0E+00	1.0E+00	Styrene
5.05E-02	9.46E-06	1.77E-02	25	8,288	394.40	620.20	165.83	2.6E-07	4.0E-02	Tetrachloroethylene
7.78E-02	9.20E-06	6.64E-03	25	7,930	383.78	591.79	92.14	0.0E+00	5.0E+00	Toluene
7.04E-02	8.44E-06	9.32E-05	25	8,610	401.00	60.10	100.16	0.0E+00	3.0E-02	2-Hexanone
6.87E-02	1.02E-05	9.85E-03	25	7,505	360.36	544.20	131.39	4.1E-06	2.0E-03	Trichloroethylene
8.49E-02	1.00E-05	5.11E-04	25	7,800	345.65	519.13	86.09	0.0E+00	2.0E-01	Vinyl acetate

END

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	137.4	0.321	0.093	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	1.10E+00	3.39E+04
										5.20E+01	
										6.10E+00	
										4.20E+02	
										3.90E+00	
										7.40E-01	
										7.60E+01	
										7.60E-01	
										1.00E+00	
										7.80E-01	
										1.60E+00	
										2.30E+00	
										6.70E+00	
										3.50E+01	
										5.10E+00	
										3.40E+00	
										2.90E+01	
										3.80E+01	
										2.80E+02	
										5.80E+01	

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.06E+06	5.00E-03	15	8,478	2.69E-03	1.10E-01	1.80E-04	1.18E-02	0.00E+00	0.00E+00	1.18E-02	137.4
			8,244	5.43E-05	2.23E-03	1.80E-04	1.48E-02	0.00E+00	0.00E+00	1.48E-02	
			9,673	1.30E-04	5.34E-03	1.80E-04	1.13E-02	0.00E+00	0.00E+00	1.13E-02	
			7,384	3.36E-05	1.38E-03	1.80E-04	1.71E-02	0.00E+00	0.00E+00	1.71E-02	
			7,977	5.30E-03	2.18E-01	1.80E-04	1.45E-02	0.00E+00	0.00E+00	1.45E-02	
			10,746	5.03E-04	2.06E-02	1.80E-04	5.77E-03	0.00E+00	0.00E+00	5.77E-03	
			6,572	1.39E-02	5.69E-01	1.80E-04	1.71E-02	0.00E+00	0.00E+00	1.71E-02	
			7,716	2.64E-02	1.08E+00	1.80E-04	9.23E-03	0.00E+00	0.00E+00	9.23E-03	
			5,740	1.07E-02	4.41E-01	1.80E-04	1.68E-02	0.00E+00	0.00E+00	1.68E-02	
			7,407	3.52E-03	1.44E-01	1.80E-04	1.24E-02	0.00E+00	0.00E+00	1.24E-02	
			4,578	8.59E-03	3.52E-01	1.80E-04	2.00E-02	0.00E+00	0.00E+00	2.00E-02	
			7,592	3.91E-03	1.60E-01	1.80E-04	1.43E-02	0.00E+00	0.00E+00	1.43E-02	
			9,994	7.45E-03	3.05E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			10,245	4.88E-03	2.00E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			6,884	3.13E-03	1.28E-01	1.80E-04	1.61E-02	0.00E+00	0.00E+00	1.61E-02	
			10,294	2.59E-03	1.06E-01	1.80E-04	1.15E-02	0.00E+00	0.00E+00	1.15E-02	
			9,410	1.68E-02	6.88E-01	1.80E-04	8.16E-03	0.00E+00	0.00E+00	8.16E-03	
			9,001	6.31E-03	2.59E-01	1.80E-04	1.26E-02	0.00E+00	0.00E+00	1.26E-02	
			7,418	8.94E-05	3.66E-03	1.80E-04	1.14E-02	0.00E+00	0.00E+00	1.14E-02	
			8,382	9.39E-03	3.85E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			8,559	4.87E-04	2.00E-02	1.80E-04	1.37E-02	0.00E+00	0.00E+00	1.37E-02	

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Compound	
15	1.10E+00	1.33	8.33E+01	1.18E-02	5.30E+03	5.79E+05	1.29E-03	1.42E-03	1.0E-05	4.0E-03	1,2-Dichloropropane	1.29E-03
	5.20E+01			1.48E-02		4.18E+04	1.42E-03	7.39E-02	NA	5.0E+00	Methylethylketone (2-butanone	1.42E-03
	6.10E+00			1.13E-02		1.13E+06	1.26E-03	7.66E-03	NA	3.0E+00	Methylisobutylketone (4-methy	1.26E-03
	4.20E+02			1.71E-02		9.64E+03	1.51E-03	6.34E-01	NA	3.1E+01	Acetone	1.51E-03
	3.90E+00			1.45E-02		5.24E+04	1.41E-03	5.49E-03	7.8E-06	3.0E-02	Benzene	1.41E-03
	7.40E-01			5.77E-03		6.79E+11	8.56E-04	6.34E-04	1.1E-06	NA	Bromoform	8.56E-04
	7.60E+01			1.71E-02		9.66E+03	1.51E-03	1.15E-01	NA	7.0E-01	Carbon disulfide	1.51E-03
	7.60E-01			9.23E-03		2.50E+07	1.13E-03	8.61E-04	6.0E-06	1.0E-01	Carbon tetrachloride	1.13E-03
	1.00E+00			1.68E-02		1.15E+04	1.50E-03	1.50E-03	NA	1.0E+01	Chloroethane (ethyl chloride)	1.50E-03
	7.80E-01			1.24E-02		3.11E+05	1.32E-03	1.03E-03	2.3E-05	9.8E-02	Chloroform	1.32E-03
	1.60E+00			2.00E-02		2.55E+03	1.60E-03	2.56E-03	1.8E-06	9.0E-02	Methyl chloride (chloromethan	1.60E-03
	2.30E+00			1.43E-02		6.00E+04	1.40E-03	3.22E-03	NA	NA	cis-1,2-Dichloroethylene	1.40E-03
	6.70E+00			1.11E-02		1.47E+06	1.24E-03	8.34E-03	2.5E-06	1.0E+00	Ethylbenzene	1.24E-03
	3.50E+01			1.11E-02		1.35E+06	1.25E-03	4.37E-02	NA	1.0E-01	o-Xylene	1.25E-03
	5.10E+00			1.61E-02		1.69E+04	1.47E-03	7.51E-03	1.0E-08	6.0E-01	Methylene chloride	1.47E-03
	3.40E+00			1.15E-02		8.73E+05	1.27E-03	4.31E-03	NA	1.0E+00	Styrene	1.27E-03
	2.90E+01			8.16E-03		2.31E+08	1.06E-03	3.07E-02	2.6E-07	4.0E-02	Tetrachloroethylene	1.06E-03
	3.80E+01			1.26E-02		2.69E+05	1.32E-03	5.03E-02	NA	5.0E+00	Toluene	1.32E-03
	2.80E+02			1.14E-02		1.01E+06	1.26E-03	3.53E-01	NA	3.0E-02	2-Hexanone	1.26E-03
	2.80E+02			1.11E-02		1.41E+06	1.25E-03	3.49E-01	4.1E-06	2.0E-03	Trichloroethylene	1.25E-03
	5.80E+01			1.37E-02		9.45E+04	1.38E-03	7.98E-02	NA	2.0E-01	Vinyl acetate	1.38E-03

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)	Compound
	3.5E-09	2.4E-04	1,2-Dichloropropane
	NA	1.0E-05	Methylethylketone (2-butanone)
	NA	1.7E-06	Methylisobutylketone (4-methyl-2-pentanone)
	NA	1.4E-05	Acetone
	1.0E-08	1.3E-04	Benzene
	1.7E-10	NA	Bromoform
	NA	1.1E-04	Carbon disulfide
	1.3E-09	5.9E-06	Carbon tetrachloride
	NA	1.0E-07	Chloroethane (ethyl chloride)
	5.8E-09	7.2E-06	Chloroform
	1.1E-09	1.9E-05	Methyl chloride (chloromethane)
	NA	NA	cis-1,2-Dichloroethylene
	5.1E-09	5.7E-06	Ethylbenzene
	NA	3.0E-04	o-Xylene
	1.8E-11	8.6E-06	Methylene chloride
	NA	3.0E-06	Styrene
	2.0E-09	5.3E-04	Tetrachloroethylene
	NA	6.9E-06	Toluene
	NA	8.1E-03	2-Hexanone
	3.5E-07	1.2E-01	Trichloroethylene
	NA	2.7E-04	Vinyl acetate
Sum	**3.8E-07**	**0.13**	

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

SCROLL DOWN TO "END"

END

SIL	0.76	0.00506	1.663	0.3987	0.439	0.065	0.011	1.49	0.180	Silt Loam
SL	1.60	0.02667	1.449	0.3099	0.387	0.039	0.030	1.62	0.103	Sandy Loam

Chemical Properties Lookup Table

CalEPA Toxicity Criteria in bold
(last updated 1/21/05 DTSC/HERD)

CAS No.	Chemical	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Pure component water solubility, S (mg/L)	Henry's law constant H' (unitless)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
56235	Carbon tetrachloride	1.74E+02	5.71E-02	9.79E-06	7.93E+02	1.24E+00	2.76E-02	25	349.90	556.60	7,127	**6.0E-06**	**1.0E-01**	1.54E+02
57749	Chlordane	1.20E+05	1.18E-02	4.37E-06	5.60E-02	1.99E-03	4.85E-05	25	624.24	885.73	14,000	**3.4E-04**	7.0E-04	4.10E+02
58899	gamma-HCH (Lindane)	1.07E+03	1.42E-02	7.34E-06	7.30E+00	5.73E-04	1.40E-05	25	596.55	839.36	15,000	**3.1E-04**	1.1E-03	2.91E+02
60297	Ethyl ether	5.73E+00	7.82E-02	8.61E-06	5.68E+04	1.35E+00	3.29E-02	25	307.50	466.74	6,338	0.0E+00	7.0E-01	7.41E+01
60571	Dieldrin	2.14E+04	1.25E-02	4.74E-06	1.95E-01	6.18E-04	1.51E-05	25	613.32	842.25	17,000	**4.6E-03**	1.8E-04	3.81E+02
67641	Acetone	5.75E-01	1.06E-01	1.15E-05	1.00E+06	1.59E-03	3.50E-05	25	329.20	508.10	6,955	0.0E+00	3.1E+01	5.81E+01
67663	Chloroform	3.98E+01	7.69E-02	1.09E-05	7.92E+03	1.50E-01	3.67E-03	25	334.32	536.40	6,988	**2.3E-05**	**9.8E-02**	1.19E+02
67721	Hexachloroethane	1.78E+03	2.50E-03	6.80E-06	5.00E+01	1.59E-01	3.88E-03	25	458.00	695.00	9,510	**1.1E-05**	3.5E-03	2.37E+02
71432	Benzene	5.89E+01	8.95E-02	1.03E-05	1.79E+03	2.27E-01	5.55E-03	25	353.24	562.16	7,342	**7.8E-06**	**3.0E-02**	7.81E+01
71556	1,1,1-Trichloroethane	1.10E+02	7.80E-02	8.80E-06	1.33E+03	7.03E-01	1.72E-02	25	347.24	545.00	7,136	0.0E+00	**1.0E+00**	1.33E+02
72435	Methoxychlor	9.77E+04	1.56E-02	4.46E-06	1.00E-01	6.46E-04	1.58E-05	25	651.02	848.49	16,000	0.0E+00	1.8E-02	3.46E+02
72559	DDE	4.47E+06	1.44E-02	5.87E-06	1.20E-01	8.59E-04	2.09E-05	25	636.44	860.38	15,000	**9.7E-05**	0.0E+00	3.18E+02
74839	Methyl bromide	1.05E+01	7.28E-02	1.21E-05	1.52E+04	2.55E-01	6.22E-03	25	276.71	467.00	5,714	0.0E+00	**5.0E-03**	9.49E+01
74873	Methyl chloride (chloromethane)	2.12E+00	1.24E-01	1.36E-05	5.33E+03	3.61E-01	8.82E-03	25	249.00	416.25	5,115	1.8E-06	9.0E-02	5.05E+01
74908	Hydrogen cyanide	3.80E+00	1.93E-01	2.10E-05	1.00E+06	5.44E-03	1.33E-04	25	299.00	456.70	6,676	0.0E+00	3.0E-03	2.70E+01
74953	Methylene bromide	1.26E+01	4.30E-02	8.44E-06	1.19E+04	3.52E-02	8.59E-04	25	370.00	583.00	7,868	0.0E+00	3.5E-02	1.74E+02
75003	Chloroethane (ethyl chloride)	4.40E+00	1.04E-01	1.16E-05	5.68E+03	3.61E-01	1.11E-02	25	285.30	460.40	5,879		1.0E+01	6.45E+01
75014	Vinyl chloride (chloroethene)	1.86E+01	1.06E-01	1.23E-05	8.80E+03	1.10E+00	2.69E-02	25	259.25	432.00	5,250	**7.8E-05**	1.0E-01	6.25E+01
75058	Acetonitrile	4.20E+00	1.28E-01	1.66E-05	1.00E+06	1.42E-03	3.45E-05	25	354.60	545.50	7,110	0.0E+00	6.0E-02	4.11E+01
75070	Acetaldehyde	1.06E+00	1.24E-01	1.41E-05	1.00E+06	3.23E-03	7.87E-05	25	293.10	466.00	6,157	**2.7E-06**	**9.0E-03**	4.41E+01
75092	Methylene chloride	1.17E+01	9.99E-02	1.25E-05	1.30E+04	8.96E-02	3.25E-03	25	313.00	510.00	6,706	**1.0E-08**	**6.0E-01**	8.49E+01
75150	Carbon disulfide	4.57E+01	1.06E-01	1.30E-05	1.19E+03	1.24E+00	1.44E-02	25	319.00	552.00	6,391	0.0E+00	7.0E-01	7.61E+01
75218	Ethylene oxide	1.33E+00	1.04E-01	1.45E-05	3.04E+05	2.27E-02	5.54E-04	25	283.60	469.00	6,104	**8.8E-05**	**3.0E-02**	4.41E+01
75252	Bromoform	8.71E+01	3.57E-02	1.04E-05	3.10E+03	2.41E-02	5.35E-04	25	422.35	696.00	9,479	1.1E-06		2.53E+02
75274	Bromodichloromethane	5.50E+01	2.98E-02	1.06E-05	6.74E+03	6.54E-02	1.60E-03	25	363.15	585.85	7,800	**3.7E-05**	7.0E-02	1.64E+02
75296	2-Chloropropane	9.14E+00	8.88E-02	1.01E-05	3.73E+03	5.93E-01	1.45E-02	25	308.70	485.00	6,286	0.0E+00	1.0E-01	7.85E+01
75343	1,1-Dichloroethane	3.16E+01	7.42E-02	1.05E-05	5.06E+03	2.30E-01	5.61E-03	25	330.55	523.00	6,895	**1.6E-06**	5.0E-01	9.90E+01
75354	1,1-Dichloroethylene	5.89E+01	9.00E-02	1.04E-05	2.25E+03	1.07E+00	2.60E-02	25	304.75	576.05	6,247	0.0E+00	**7.0E-02**	9.69E+01
75456	Chlorodifluoromethane	4.79E+01	1.01E-01	1.28E-05	2.00E+00	1.10E+00	2.70E-02	25	232.40	369.30	4,836	0.0E+00	5.0E+01	8.65E+01
75694	Trichlorofluoromethane	4.97E+02	8.70E-02	9.70E-06	1.10E+03	3.97E+00	9.68E-02	25	296.70	471.00	5,999	0.0E+00	7.0E-01	1.37E+02
75718	Dichlorodifluoromethane	4.57E+02	6.65E-02	9.92E-06	2.80E+02	1.40E+01	3.42E-01	25	243.20	384.95	9,421	0.0E+00	2.0E-01	1.21E+02
76131	1,1,2-Trichloro-1,2,2-trifluoroethar	1.11E+04	7.80E-02	8.20E-06	1.70E+02	1.97E+01	4.80E-01	25	320.70	487.30	6,463	0.0E+00	3.0E+01	1.87E+02
76448	Heptachlor	1.41E+06	1.12E-02	5.69E-06	1.80E-01	6.05E+01	1.48E+00	25	603.69	846.31	13,000	**1.6E-03**	1.8E-03	3.73E+02
77474	Hexachlorocyclopentadiene	2.00E+05	1.61E-02	7.21E-06	1.80E+00	1.10E+00	2.69E-02	25	512.15	746.00	10,931	0.0E+00	2.0E-04	2.73E+02
78831	Isobutanol	2.59E+00	8.60E-02	9.30E-06	8.50E+04	4.83E-04	1.18E-05	25	381.04	547.78	10,936	0.0E+00	1.1E+00	7.41E+01
78875	1,2-Dichloropropane	4.37E+01	7.33E-02	9.73E-06	2.80E+03	1.15E-01	2.82E-03	25	369.52	572.00	7,590	**1.0E-05**	4.0E-03	1.13E+02
78933	Methylethylketone (2-butanone)	2.30E+00	9.14E-02	1.02E-05	2.23E+05	2.29E-03	5.69E-05	25	352.50	536.78	7,481	0.0E+00	5.0E+00	7.21E+01
79005	1,1,2-Trichloroethane	5.01E+01	7.80E-02	8.80E-06	4.42E+03	3.73E-02	9.11E-04	25	386.15	602.00	8,322	**1.6E-05**	1.4E-02	1.33E+02
79016	Trichloroethylene	1.66E+02	6.87E-02	1.02E-05	1.47E+03	4.21E-01	9.85E-03	25	360.36	544.20	7,505	**4.1E-06**	**2.0E-03**	1.31E+02
79209	Methyl acetate	3.26E+00	1.04E-01	1.00E-05	2.00E+03	4.84E-03	1.18E-04	25	329.80	506.70	7,260	0.0E+00	3.5E+00	7.41E+01
79345	1,1,2,2-Tetrachloroethane	9.33E+01	7.10E-02	7.90E-06	2.96E+03	1.41E-02	3.44E-04	25	419.60	661.15	8,996	**5.8E-05**	2.1E-01	1.68E+02
79469	2-Nitropropane	1.17E+01	9.23E-02	1.01E-05	1.70E+04	5.03E-03	1.23E-04	25	393.20	594.00	8,383	2.7E-03	2.0E-02	8.91E+01
80626	Methylmethacrylate	6.98E+00	7.70E-02	8.60E-06	1.50E+04	1.38E-02	3.36E-04	25	373.50	567.00	8,975	0.0E+00	7.0E-01	1.00E+02
83329	Acenaphthene	7.08E+03	4.21E-02	7.69E-06	3.57E+00	6.34E-03	1.55E-04	25	550.54	803.15	12,155	0.0E+00	2.1E-01	1.54E+02
86737	Fluorene	1.38E+04	3.63E-02	7.88E-06	1.98E+00	2.60E-03	6.34E-05	25	570.44	870.00	12,666	0.0E+00	1.4E-01	1.66E+02
87683	Hexachloro-1,3-butadiene	5.37E+04	5.61E-02	6.16E-06	3.20E+00	3.33E-01	8.13E-03	25	486.15	738.00	10,206	2.2E-05	7.0E-04	2.61E+02
88722	o-Nitrotoluene	3.24E+02	5.87E-02	8.67E-06	6.50E+02	5.11E-04	1.25E-05	25	495.00	720.00	12,239	0.0E+00	3.5E-02	1.37E+02
91203	Naphthalene	2.00E+03	5.90E-02	7.50E-06	3.10E+01	1.98E-02	4.82E-04	25	491.14	748.40	10,373	**3.4E-05**	3.0E-03	1.28E+02
91576	2-Methylnaphthalene	2.81E+03	5.22E-02	7.75E-06	2.46E+01	2.12E-02	5.17E-04	25	514.26	761.00	12,600	0.0E+00	7.0E-02	1.42E+02
92524	Biphenyl	4.38E+03	4.04E-02	8.15E-06	7.45E+00	1.23E-02	2.99E-04	25	529.10	789.00	10,890	0.0E+00	1.8E-01	1.54E+02
95476	o-Xylene	3.63E+02	6.89E-02	8.53E-06	1.78E+02	2.12E-01	5.18E-03	25	417.60	630.30	8,661	0.0E+00	1.0E-01	1.06E+02
95501	1,2-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	1.56E+02	7.77E-02	1.90E-03	25	453.57	705.00	9,700	0.0E+00	2.0E-01	1.47E+02
95578	2-Chlorophenol	3.88E+02	5.01E-02	9.46E-06	2.20E+04	1.60E-02	3.90E-04	25	447.53	675.00	9,572	0.0E+00	1.8E-02	1.29E+02
95636	1,2,4-Trimethylbenzene	1.35E+03	6.06E-02	7.92E-06	5.70E+01	2.52E-01	6.14E-03	25	442.30	649.17	9,369	0.0E+00	6.0E-03	1.20E+02
96184	1,2,3-Trichloropropane	2.20E+01	7.10E-02	7.90E-06	1.75E+03	1.67E-02	4.08E-04	25	430.00	652.00	9,171	5.7E-04	4.9E-03	1.47E+02
96333	Methyl acrylate	4.53E+00	9.76E-02	1.02E-05	6.00E+04	7.68E-03	1.87E-04	25	353.70	536.00	7,749	0.0E+00	1.1E-01	8.61E+01
97632	Ethylmethacrylate	2.95E+01	6.53E-02	8.37E-06	3.67E+03	3.44E-02	8.40E-04	25	390.00	571.00	10,957	0.0E+00	3.2E-01	1.14E+02

98066	tert-Butylbenzene	7.71E+02	5.65E-02	8.02E-06	2.95E+01	4.87E-01	1.19E-02	25	442.10	1220.00	8,980	0.0E+00	1.4E-01	1.34E+02
98828	Cumene	4.89E+02	6.50E-02	7.10E-06	6.13E+01	4.74E+01	1.16E+00	25	425.56	631.10	10,335	0.0E+00	4.0E-01	1.20E+02
98862	Acetophenone	5.77E+01	6.00E-02	8.73E-06	6.13E+03	4.38E-04	1.07E-05	25	475.00	709.50	11,732	0.0E+00	3.5E-01	1.20E+02
98953	Nitrobenzene	6.46E+01	7.60E-02	8.60E-06	2.09E+03	9.82E-04	2.39E-05	25	483.95	719.00	10,566	0.0E+00	2.0E-03	1.23E+02
100414	Ethylbenzene	3.63E+02	6.85E-02	8.46E-06	1.69E+02	3.22E-01	7.88E-03	25	409.34	617.20	8,501	2.5E-06	1.0E+00	1.06E+02
100425	Styrene	7.76E+02	7.11E-02	8.78E-06	3.10E+02	1.12E-01	2.75E-03	25	418.31	636.00	8,737	0.0E+00	**1.0E+00**	1.04E+02
100447	Benzylchloride	6.14E+01	7.50E-02	7.80E-06	5.25E+02	1.70E-02	4.14E-04	25	452.00	685.00	8,773	**4.9E-05**	0.0E+00	1.27E+02
100527	Benzaldehyde	4.59E+01	7.21E-02	9.07E-06	3.30E+03	9.73E-04	2.37E-05	25	452.00	695.00	11,658	0.0E+00	3.5E-01	1.06E+02
103651	n-Propylbenzene	5.62E+02	6.01E-02	7.83E-06	6.00E+01	4.37E-01	1.07E-02	25	432.20	630.00	9,123	0.0E+00	1.4E-01	1.20E+02
104518	n-Butylbenzene	1.11E+03	5.70E-02	8.12E-06	2.00E+00	5.38E-01	1.31E-02	25	456.46	660.50	9,290	0.0E+00	1.4E-01	1.34E+02
106423	p-Xylene	3.89E+02	7.69E-02	8.44E-06	1.85E+02	3.13E-01	7.64E-03	25	411.52	616.20	8,525	0.0E+00	1.0E-01	1.06E+02
106467	1,4-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	7.90E+01	9.82E-02	2.39E-03	25	447.21	684.75	9,271	**1.1E-05**	**8.0E-01**	1.47E+02
106934	1,2-Dibromoethane (ethylene dibr	2.50E+01	2.17E-02	1.19E-05	4.18E+03	3.04E-02	7.41E-04	25	404.60	583.00	8,310	**7.1E-05**	**8.0E-04**	1.88E+02
106990	1,3-Butadiene	1.91E+01	2.49E-01	1.08E-05	7.35E+02	3.01E+00	7.34E-02	25	268.60	425.00	5,370	**1.7E-04**	2.0E-03	5.41E+01
107028	Acrolein	2.76E+00	1.05E-01	1.22E-05	2.13E+05	4.99E-03	1.22E-04	25	325.60	506.00	6,731	0.0E+00	2.0E-05	5.61E+01
107062	1,2-Dichloroethane	1.74E+01	1.04E-01	9.90E-06	8.52E+03	4.00E-02	9.77E-04	25	356.65	561.00	7,643	**2.1E-05**	**4.0E-01**	9.90E+01
107131	Acrylonitrile	5.90E+00	1.22E-01	1.34E-05	7.40E+04	4.21E-03	1.03E-04	25	350.30	519.00	7,786	**2.9E-04**	2.0E-03	5.31E+01
108054	Vinyl acetate	5.25E+00	8.49E-02	1.00E-05	2.00E+04	2.09E-02	5.11E-04	25	345.65	519.13	7,800	0.0E+00	**2.0E-01**	8.61E+01
108101	Methylisobutylketone (4-methyl-2-	9.06E+00	6.98E-02	8.35E-06	1.90E+04	5.64E-03	1.38E-04	25	389.50	571.00	8,243	0.0E+00	3.0E+00	1.00E+02
108383	m-Xylene	4.07E+02	7.00E-02	7.80E-06	1.61E+02	3.00E-01	7.32E-03	25	412.27	617.05	8,523	0.0E+00	1.0E-01	1.06E+02
108678	1,3,5-Trimethylbenzene	1.35E+03	6.02E-02	8.67E-06	2.00E+00	2.41E-01	5.87E-03	25	437.89	637.25	9,321	0.0E+00	6.0E-03	1.20E+02
108872	Methylcyclohexane	7.85E+01	7.35E-02	8.52E-06	1.40E+01	4.22E+00	1.03E-01	25	373.90	572.20	7,474	0.0E+00	3.0E+00	9.82E+01
108883	Toluene	1.82E+02	7.78E-02	9.20E-06	5.26E+02	2.72E-01	6.64E-03	25	383.78	591.79	7,930	0.0E+00	**5.0E+00**	9.21E+01
108907	Chlorobenzene	2.19E+02	7.30E-02	8.70E-06	4.72E+02	1.51E-01	3.69E-03	25	404.87	632.40	8,410	0.0E+00	**1.0E+00**	1.13E+02
109693	1-Chlorobutane	1.72E+01	8.26E-02	1.00E-05	1.10E+03	6.93E-01	1.69E-02	25	351.60	542.00	7,263	0.0E+00	1.4E+00	9.26E+01
110009	Furan	1.86E+01	1.04E-01	1.22E-05	1.00E+04	2.21E-01	5.39E-03	25	304.60	490.20	6,477	0.0E+00	3.5E-03	6.81E+01
110543	Hexane	4.34E+01	2.00E-01	7.77E-06	1.24E+01	6.82E+01	1.66E+00	25	341.70	508.00	6,895	0.0E+00	2.0E-01	8.62E+01
111444	Bis(2-chloroethyl)ether	1.55E+01	6.92E-02	7.53E-06	1.72E+04	7.36E-04	1.80E-05	25	451.15	659.79	10,803	**7.1E-04**	0.0E+00	1.43E+02
115297	Endosulfan	2.14E+03	1.15E-02	4.55E-06	5.10E-01	4.58E-04	1.12E-05	25	674.43	942.94	14,000	0.0E+00	2.1E-02	4.07E+02
118741	Hexachlorobenzene	5.50E+04	5.42E-02	5.91E-06	5.00E-03	5.40E-02	1.32E-03	25	582.55	825.00	14,447	**5.1E-04**	2.8E-03	2.85E+02
120821	1,2,4-Trichlorobenzene	1.78E+03	3.00E-02	8.23E-06	4.88E+01	5.81E-02	1.42E-03	25	486.15	725.00	10,471	0.0E+00	2.0E-01	1.81E+02
123739	Crotonaldehyde (2-butenal)	4.82E+00	9.56E-02	1.07E-05	3.69E+04	7.99E-04	1.95E-05	25	375.20	568.00	9	5.4E-04	0.0E+00	7.01E+01
124481	Chlorodibromomethane	6.31E+01	1.96E-02	1.05E-05	2.60E+03	3.20E-02	7.81E-04	25	416.14	678.20	5,900	**2.7E-05**	7.0E-02	2.08E+02
126987	Methacrylonitrile	3.58E+01	1.12E-01	1.32E-05	2.54E+04	1.01E-02	2.46E-04	25	363.30	554.00	7,600	0.0E+00	7.0E-04	6.71E+01
126998	2-Chloro-1,3-butadiene (chloropre	6.73E+01	8.58E-02	1.03E-05	2.12E+03	4.91E-01	1.20E-02	25	332.40	525.00	8,075	0.0E+00	7.0E-03	8.85E+01
127184	Tetrachloroethylene	1.55E+02	5.05E-02	9.46E-06	2.00E+02	7.53E-01	1.77E-02	25	394.40	620.20	8,288	**2.6E-07**	**4.0E-02**	1.66E+02
129000	Pyrene	1.05E+05	2.72E-02	7.24E-06	1.35E+00	4.50E-04	1.10E-05	25	667.95	936	14370	0.0E+00	1.1E-01	2.02E+02
132649	Dibenzofuran	5.15E+03	2.38E-02	6.00E-06	3.10E+00	5.15E-04	1.26E-05	25	560	824	66400	0.0E+00	1.4E-02	1.68E+02
135988	sec-Butylbenzene	9.66E+02	5.70E-02	8.12E-06	3.94E+00	5.68E-01	1.39E-02	25	446.5	679	88730	0.0E+00	1.4E-01	1.34E+02
141786	Ethylacetate	6.44E+00	7.32E-02	9.70E-06	8.03E+04	5.64E-03	1.38E-04	25	350.26	523.3	7633.66	0.0E+00	3.2E+00	8.81E+01
156592	cis-1,2-Dichloroethylene	3.55E+01	8.84E-02	1.13E-05	3.50E+03	1.67E-01	4.08E-03	25	333.65	544	7192	0.0E+00		9.69E+01
156605	trans-1,2-Dichloroethylene	5.25E+01	7.07E-02	1.19E-05	6.30E+03	3.84E-01	9.36E-03	25	320.85	516.5	6717	0.0E+00	7.0E-02	9.69E+01
205992	Benzo(b)fluoranthene	1.23E+06	2.26E-02	5.56E-06	1.50E-03	4.54E-03	1.11E-04	25	715.9	969.27	17000	**1.1E-04**	0.0E+00	2.52E+02
218019	Chrysene	3.98E+05	2.48E-02	6.21E-06	6.30E-03	3.87E-03	9.44E-05	25	714.15	979	16455	**1.1E-05**	0.0E+00	2.28E+02
309002	Aldrin	2.45E+06	1.32E-02	4.86E-06	1.70E-02	6.95E-03	1.70E-04	25	603.01	839.37	15000	**4.9E-03**	1.1E-04	3.65E+02
319846	alpha-HCH (alpha-BHC)	1.23E+03	1.42E-02	7.34E-06	2.00E+00	4.34E-04	1.06E-05	25	596.55	839.36	15000	**7.7E-04**	0.0E+00	2.91E+02
541731	1,3-Dichlorobenzene	1.98E+03	6.92E-02	7.86E-06	1.34E+02	1.27E-01	3.09E-03	25	446	684	9230.18	0.0E+00	1.1E-01	1.47E+02
542756	1,3-Dichloropropene	4.57E+01	6.26E-02	1.00E-05	2.80E+03	7.24E-01	1.77E-02	25	381.15	587.38	7900	**1.6E-05**	2.0E-02	1.11E+02
591786	2-Hexanone	1.50E+01	7.04E-02	8.44E-06	1.72E+04	3.81E-03	9.32E-05	25	401	60.1	8610	0.0E+00	3.0E-02	1.00E+02
630206	1,1,1,2-Tetrachloroethane	1.16E+02	7.10E-02	7.90E-06	1.10E+03	9.90E-02	2.41E-03	25	403.5	624	9768.282525	7.4E-06	1.1E-01	1.68E+02
1634044	MTBE	7.26E+00	1.02E-01	1.05E-05	5.10E+04	2.56E-02	6.23E-04	25	328.3	497.1	6677.66	**2.6E-07**	3.0E+00	8.82E+01
7439976	Mercury (elemental)	5.20E+01	3.07E-02	6.30E-06	2.00E+01	4.40E-01	1.07E-02	25	629.88	1750	14127	0.0E+00	**9.0E-05**	2.01E+02

		Original EPA Values				CalEPA / USEPA Potency Ratio
URF extrapolated (X)	RfC extrapolated (X)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	URF extrapolated (X)	RfC extrapolated (X)	
		1.5E-05	0.0E+00			**0.40**
		1.0E-04	7.0E-04			**3.40**
?	X	3.7E-04	1.1E-03	X	X	**0.84**
	X	0.0E+00	7.0E-01		X	NC
	X	4.6E-03	1.8E-04		X	**1.00**
	X	0.0E+00	3.5E-01		X	NC
		2.3E-05	0.0E+00			**1.00**
	X	4.0E-06	3.5E-03		X	**2.75**
		7.8E-06	0.0E+00			**1.00**
		0.0E+00	2.2E+00			NC
	X	0.0E+00	1.8E-02		X	NC
?		9.7E-05	0.0E+00	X		**1.00**
		0.0E+00	5.0E-03			NC
		1.0E-06	9.0E-02			1.80
		0.0E+00	3.0E-03			NC
	X	0.0E+00	3.5E-02		X	NC
X		8.3E-07	1.0E+01	X		0.00
		8.8E-06	1.0E-01			**8.86**
		0.0E+00	6.0E-02			NC
		2.2E-06	9.0E-03			**1.23**
		4.7E-07	3.0E+00			**0.02**
		0.0E+00	7.0E-01			NC
		1.0E-04	0.0E+00			**0.88**
	X	1.1E-06	7.0E-02		X	1.00
?	X	1.8E-05	7.0E-02	X	X	**2.09**
		0.0E+00	1.0E-01			NC
		0.0E+00	5.0E-01			**CalEPA only**
		0.0E+00	2.0E-01			NC
		0.0E+00	5.0E+01			NC
		0.0E+00	7.0E-01			NC
		0.0E+00	2.0E-01			NC
		0.0E+00	3.0E+01			NC
	X	1.3E-03	1.8E-03		X	**1.23**
		0.0E+00	2.0E-04			NC
	X	0.0E+00	1.1E+00		X	NC
?		1.9E-05	4.0E-03	X		**0.52**
		0.0E+00	1.0E+00			NC
	X	1.6E-05	1.4E-02		X	**1.00**
?		1.1E-04	4.0E-02	X		**0.04**
	X	0.0E+00	3.5E+00		X	NC
	X	5.8E-05	2.1E-01		X	**1.00**
		2.7E-03	2.0E-02			1.00
		0.0E+00	7.0E-01			NC
	X	0.0E+00	2.1E-01		X	NC
	X	0.0E+00	1.4E-01		X	NC
	X	2.2E-05	7.0E-04		X	1.00
	X	0.0E+00	3.5E-02		X	NC
		0.0E+00	3.0E-03			NC
	X	0.0E+00	7.0E-02		X	NC
	X	0.0E+00	1.8E-01		X	NC
	?	0.0E+00	1.0E-01			NC
		0.0E+00	2.0E-01			NC
	X	0.0E+00	1.8E-02		X	NC
		0.0E+00	6.0E-03			NC
X		5.7E-04	4.9E-03	X		1.00
	X	0.0E+00	1.1E-01		X	NC
	X	0.0E+00	3.2E-01		X	NC

	X	0.0E+00	1.4E-01		X	NC
		0.0E+00	4.0E-01			NC
	X	0.0E+00	3.5E-01		X	NC
		0.0E+00	2.0E-03			NC
		0.0E+00	1.0E+00			NC
		0.0E+00	1.0E+00			NC
?		4.9E-05	0.0E+00	X		**1.00**
	X	0.0E+00	3.5E-01		X	NC
	X	0.0E+00	1.4E-01		X	NC
	X	0.0E+00	1.4E-01		X	NC
	?	0.0E+00	1.0E-01			NC
		0.0E+00	8.0E-01			**CalEPA only**
		6.0E-04	9.0E-03			**0.12**
		3.0E-05	0.0E+00			**5.67**
		0.0E+00	2.0E-05			NC
		2.6E-05	0.0E+00			**0.81**
		6.8E-05	2.0E-03			**4.26**
		0.0E+00	2.0E-01			NC
		0.0E+00	8.0E-02			NC
	?	0.0E+00	1.0E-01			NC
		0.0E+00	6.0E-03			NC
		0.0E+00	3.0E+00			NC
		0.0E+00	4.0E-01			NC
		0.0E+00	6.0E-02			NC
	X	0.0E+00	1.4E+00		X	NC
	X	0.0E+00	3.5E-03		X	NC
		0.0E+00	2.0E-01			NC
		3.3E-04	0.0E+00			**2.15**
	X	0.0E+00	2.1E-02		X	NC
	X	4.6E-04	2.8E-03		X	**1.11**
		0.0E+00	2.0E-01			NC
X		5.4E-04	0.0E+00	X		1.00
?	X	2.4E-05	7.0E-02	X	X	**1.13**
		0.0E+00	7.0E-04			NC
		0.0E+00	7.0E-03			NC
		3.0E-06	0.0E+00			**0.09**
	X	0.0E+00	1.1E-01		X	NC
	X	0.0E+00	1.4E-02		X	NC
	X	0.0E+00	1.4E-01		X	NC
	X	0.0E+00	3.2E+00		X	NC
	X	0.0E+00	3.5E-02		X	NC
	X	0.0E+00	7.0E-02		X	NC
?		2.1E-04	0.0E+00	X		**0.53**
?		2.1E-06	0.0E+00	X		**5.26**
	X	4.9E-03	1.1E-04		X	**1.00**
		1.8E-03	0.0E+00			**0.43**
	X	0.0E+00	1.1E-01		X	NC
		4.0E-06	2.0E-02			**4.00**
	X	7.4E-06	1.1E-01		X	1.00
		0.0E+00	3.0E+00			**CalEPA only**
		0.0E+00	3.0E-04			NC

SG-ADV
Version 2.0; 02/03

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
78875	1.00E+00			1,2-Dichloropropane
78933	7.30E+01			Methylethylketone (2-butanone)
108101	3.40E+00			Methylisobutylketone (4-methyl-2-pentanone)
67641	3.60E+02			Acetone
71432	6.70E+00			Benzene
75252	3.10E+00			Bromoform
75150	3.10E+00			Carbon disulfide
56235	7.40E-01			Carbon tetrachloride
75003	3.10E+00			Chloroethane (ethyl chloride)
67663	3.50E+00			Chloroform
74873	8.70E-01			Methyl chloride (chloromethane)
156592	3.80E+00			cis-1,2-Dichloroethylene
100414	6.60E+00			Ethylbenzene
95476	3.30E+01			o-Xylene
75092	4.40E+00			Methylene chloride
100425	2.70E+00			Styrene
127184	3.40E+01			Tetrachloroethylene
108883	3.40E+01			Toluene
591786	4.60E+00			2-Hexanone
79016	9.20E+02			Trichloroethylene
108054	3.30E+01			Vinyl acetate

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	#N/A Soil gas sampling depth below grade, L_s (cm)	#N/A Average soil temperature, T_S (°C)	#N/A ENTER ENTER Totals must add up to value of Ls (cell F24): Thickness of soil stratum A, h_A (cm)	Thickness of soil stratum B, (Enter value or 0) h_B (cm)	Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
15	304.8	24	304.8			S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054		1.5	0.403	0.31		1.5	0.375	0.054

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	244	0.1	0.5	5

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization a the normal boiling point $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Compound
7.33E-02	9.73E-06	2.82E-03	25	7,590	369.52	572.00	112.99	1.0E-05	4.0E-03	1,2-Dichloropropane
9.14E-02	1.02E-05	5.69E-05	25	7,481	352.50	536.78	72.11	0.0E+00	5.0E+00	Methylethylketone (2-butanone)
6.98E-02	8.35E-06	1.38E-04	25	8,243	389.50	571.00	100.16	0.0E+00	3.0E+00	Methylisobutylketone (4-methyl-2-pentanone)
1.06E-01	1.15E-05	3.50E-05	25	6,955	329.20	508.10	58.08	0.0E+00	3.1E+01	Acetone
8.95E-02	1.03E-05	5.55E-03	25	7,342	353.24	562.16	78.11	7.8E-06	3.0E-02	Benzene
3.57E-02	1.04E-05	5.35E-04	25	9,479	422.35	696.00	252.75	1.1E-06	0.0E+00	Bromoform
1.06E-01	1.30E-05	1.44E-02	25	6,391	319.00	552.00	76.13	0.0E+00	7.0E-01	Carbon disulfide
5.71E-02	9.79E-06	2.76E-02	25	7,127	349.90	556.60	153.82	6.0E-06	1.0E-01	Carbon tetrachloride
1.04E-01	1.16E-05	1.11E-02	25	5,879	285.30	460.40	64.51	0.0E+00	1.0E+01	Chloroethane (ethyl chloride)
7.69E-02	1.09E-05	3.67E-03	25	6,988	334.32	536.40	119.38	2.3E-05	9.8E-02	Chloroform
1.24E-01	1.36E-05	8.82E-03	25	5,115	249.00	416.25	50.49	1.8E-06	9.0E-02	Methyl chloride (chloromethane)
8.84E-02	1.13E-05	4.08E-03	25	7,192	333.65	544.00	96.94	0.0E+00	0.0E+00	cis-1,2-Dichloroethylene
6.85E-02	8.46E-06	7.88E-03	25	8,501	409.34	617.20	106.17	2.5E-06	1.0E+00	Ethylbenzene
6.89E-02	8.53E-06	5.18E-03	25	8,661	417.60	630.30	106.17	0.0E+00	1.0E-01	o-Xylene
9.99E-02	1.25E-05	3.25E-03	25	6,706	313.00	510.00	84.93	1.0E-08	6.0E-01	Methylene chloride
7.11E-02	8.78E-06	2.75E-03	25	8,737	418.31	636.00	104.15	0.0E+00	1.0E+00	Styrene
5.05E-02	9.46E-06	1.77E-02	25	8,288	394.40	620.20	165.83	2.6E-07	4.0E-02	Tetrachloroethylene
7.78E-02	9.20E-06	6.64E-03	25	7,930	383.78	591.79	92.14	0.0E+00	5.0E+00	Toluene
7.04E-02	8.44E-06	9.32E-05	25	8,610	401.00	60.10	100.16	0.0E+00	3.0E-02	2-Hexanone
6.87E-02	1.02E-05	9.85E-03	25	7,505	360.36	544.20	131.39	4.1E-06	2.0E-03	Trichloroethylene
8.49E-02	1.00E-05	5.11E-04	25	7,800	345.65	519.13	86.09	0.0E+00	2.0E-01	Vinyl acetate

END

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
7.88E+08	289.8	0.321	0.093	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	1.00E+00	3.39E+04
										7.30E+01	
										3.40E+00	
										3.60E+02	
										6.70E+00	
										3.10E+00	
										3.10E+00	
										7.40E-01	
										3.10E+00	
										3.50E+00	
										8.70E-01	
										3.80E+00	
										6.60E+00	
										3.30E+01	
										4.40E+00	
										2.70E+00	
										3.40E+01	
										3.40E+01	
										9.20E+02	
										3.30E+01	

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.06E+06	5.00E-03	15	8,478	2.69E-03	1.10E-01	1.80E-04	1.18E-02	0.00E+00	0.00E+00	1.18E-02	289.8
			8,244	5.43E-05	2.23E-03	1.80E-04	1.48E-02	0.00E+00	0.00E+00	1.48E-02	
			9,673	1.30E-04	5.34E-03	1.80E-04	1.13E-02	0.00E+00	0.00E+00	1.13E-02	
			7,384	3.36E-05	1.38E-03	1.80E-04	1.71E-02	0.00E+00	0.00E+00	1.71E-02	
			7,977	5.30E-03	2.18E-01	1.80E-04	1.45E-02	0.00E+00	0.00E+00	1.45E-02	
			10,746	5.03E-04	2.06E-02	1.80E-04	5.77E-03	0.00E+00	0.00E+00	5.77E-03	
			6,572	1.39E-02	5.69E-01	1.80E-04	1.71E-02	0.00E+00	0.00E+00	1.71E-02	
			7,716	2.64E-02	1.08E+00	1.80E-04	9.23E-03	0.00E+00	0.00E+00	9.23E-03	
			5,740	1.07E-02	4.41E-01	1.80E-04	1.68E-02	0.00E+00	0.00E+00	1.68E-02	
			7,407	3.52E-03	1.44E-01	1.80E-04	1.24E-02	0.00E+00	0.00E+00	1.24E-02	
			4,578	8.59E-03	3.52E-01	1.80E-04	2.00E-02	0.00E+00	0.00E+00	2.00E-02	
			7,592	3.91E-03	1.60E-01	1.80E-04	1.43E-02	0.00E+00	0.00E+00	1.43E-02	
			9,994	7.45E-03	3.05E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			10,245	4.88E-03	2.00E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			6,884	3.13E-03	1.28E-01	1.80E-04	1.61E-02	0.00E+00	0.00E+00	1.61E-02	
			10,294	2.59E-03	1.06E-01	1.80E-04	1.15E-02	0.00E+00	0.00E+00	1.15E-02	
			9,410	1.68E-02	6.88E-01	1.80E-04	8.16E-03	0.00E+00	0.00E+00	8.16E-03	
			9,001	6.31E-03	2.59E-01	1.80E-04	1.26E-02	0.00E+00	0.00E+00	1.26E-02	
			7,418	8.94E-05	3.66E-03	1.80E-04	1.14E-02	0.00E+00	0.00E+00	1.14E-02	
			8,382	9.39E-03	3.85E-01	1.80E-04	1.11E-02	0.00E+00	0.00E+00	1.11E-02	
			8,559	4.87E-04	2.00E-02	1.80E-04	1.37E-02	0.00E+00	0.00E+00	1.37E-02	

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Compound	
15	1.00E+00	1.33	8.33E+01	1.18E-02	5.30E+03	5.79E+05	8.41E-04	8.41E-04	1.0E-05	4.0E-03	1,2-Dichloropropane	8.41E-04
	7.30E+01			1.48E-02		4.18E+04	9.67E-04	7.06E-02	NA	5.0E+00	Methylethylketone (2-butanone	9.67E-04
	3.40E+00			1.13E-02		1.13E+06	8.15E-04	2.77E-03	NA	3.0E+00	Methylisobutylketone (4-methy	8.15E-04
	3.60E+02			1.71E-02		9.64E+03	1.06E-03	3.80E-01	NA	3.1E+01	Acetone	1.06E-03
	6.70E+00			1.45E-02		5.24E+04	9.55E-04	6.40E-03	7.8E-06	3.0E-02	Benzene	9.55E-04
	3.10E+00			5.77E-03		6.79E+11	4.97E-04	1.54E-03	1.1E-06	NA	Bromoform	4.97E-04
	3.10E+00			1.71E-02		9.66E+03	1.06E-03	3.27E-03	NA	7.0E-01	Carbon disulfide	1.06E-03
	7.40E-01			9.23E-03		2.50E+07	7.09E-04	5.25E-04	6.0E-06	1.0E-01	Carbon tetrachloride	7.09E-04
	3.10E+00			1.68E-02		1.15E+04	1.04E-03	3.24E-03	NA	1.0E+01	Chloroethane (ethyl chloride)	1.04E-03
	3.50E+00			1.24E-02		3.11E+05	8.68E-04	3.04E-03	2.3E-05	9.8E-02	Chloroform	8.68E-04
	8.70E-01			2.00E-02		2.55E+03	1.15E-03	1.00E-03	1.8E-06	9.0E-02	Methyl chloride (chloromethan	1.15E-03
	3.80E+00			1.43E-02		6.00E+04	9.48E-04	3.60E-03	NA	NA	cis-1,2-Dichloroethylene	9.48E-04
	6.60E+00			1.11E-02		1.47E+06	8.04E-04	5.31E-03	2.5E-06	1.0E+00	Ethylbenzene	8.04E-04
	3.30E+01			1.11E-02		1.35E+06	8.07E-04	2.66E-02	NA	1.0E-01	o-Xylene	8.07E-04
	4.40E+00			1.61E-02		1.69E+04	1.02E-03	4.49E-03	1.0E-08	6.0E-01	Methylene chloride	1.02E-03
	2.70E+00			1.15E-02		8.73E+05	8.25E-04	2.23E-03	NA	1.0E+00	Styrene	8.25E-04
	3.40E+01			8.16E-03		2.31E+08	6.49E-04	2.21E-02	2.6E-07	4.0E-02	Tetrachloroethylene	6.49E-04
	3.40E+01			1.26E-02		2.69E+05	8.75E-04	2.97E-02	NA	5.0E+00	Toluene	8.75E-04
	9.20E+02			1.14E-02		1.01E+06	8.19E-04	7.53E-01	NA	3.0E-02	2-Hexanone	8.19E-04
	9.20E+02			1.11E-02		1.41E+06	8.06E-04	7.41E-01	4.1E-06	2.0E-03	Trichloroethylene	8.06E-04
	3.30E+01			1.37E-02		9.45E+04	9.24E-04	3.05E-02	NA	2.0E-01	Vinyl acetate	9.24E-04

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)	Compound
	2.1E-09	1.4E-04	1,2-Dichloropropane
	NA	9.7E-06	Methylethylketone (2-butanone)
	NA	6.3E-07	Methylisobutylketone (4-methyl-2-pentanone)
	NA	8.4E-06	Acetone
	1.2E-08	1.5E-04	Benzene
	4.1E-10	NA	Bromoform
	NA	3.2E-06	Carbon disulfide
	7.7E-10	3.6E-06	Carbon tetrachloride
	NA	2.2E-07	Chloroethane (ethyl chloride)
	1.7E-08	2.1E-05	Chloroform
	4.4E-10	7.6E-06	Methyl chloride (chloromethane)
	NA	NA	cis-1,2-Dichloroethylene
	3.2E-09	3.6E-06	Ethylbenzene
	NA	1.8E-04	o-Xylene
	1.1E-11	5.1E-06	Methylene chloride
	NA	1.5E-06	Styrene
	1.4E-09	3.8E-04	Tetrachloroethylene
	NA	4.1E-06	Toluene
	NA	1.7E-02	2-Hexanone
	7.4E-07	2.5E-01	Trichloroethylene
	NA	1.0E-04	Vinyl acetate
Sum	**7.8E-07**	**0.27**	

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

SCROLL DOWN TO "END"

END

Chemical Properties Lookup Table — CalEPA Toxicity Criteria in bold (last updated 1/21/05 DTSC/HERD) — Original EPA Values — CalEPA / USEPA Potency Ratio

CAS No.	Chemical	Organic carbon partition coefficient, K_{oc} (cm^3/g)	Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Pure component water solubility, S (mg/L)	Henry's law constant H' (unitless)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (°C)	Normal boiling point, T_B (°K)	Critical temperature, T_C (°K)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)	URF extrapolated (X)	RfC extrapolated (X)	Original EPA Values: Unit risk factor, URF ($\mu g/m^3)^{-1}$	Original EPA Values: Reference conc., RfC (mg/m^3)	Original EPA Values: URF extrapolated (X)	Original EPA Values: RfC extrapolated (X)	CalEPA / USEPA Potency Ratio
56235	Carbon tetrachloride	1.74E+02	5.71E-02	9.79E-06	7.93E+02	1.24E+00	2.76E-02	25	349.90	556.60	7,127	**6.0E-06**	**1.0E-01**	1.54E+02			1.5E-05	0.0E+00			**0.40**
57749	Chlordane	1.20E+05	1.18E-02	4.37E-06	5.60E-02	1.99E-03	4.85E-05	25	624.24	885.73	14,000	**3.4E-04**	7.0E-04	4.10E+02			1.0E-04	7.0E-04			**3.40**
58899	gamma-HCH (Lindane)	1.07E+03	1.42E-02	7.34E-06	7.30E+00	5.73E-04	1.40E-05	25	596.55	839.36	15,000	**3.1E-04**	1.1E-03	2.91E+02	?	X	3.7E-04	1.1E-03	X	X	**0.84**
60297	Ethyl ether	5.73E+00	7.82E-02	8.61E-06	5.68E+04	1.35E+00	3.29E-02	25	307.50	466.74	6,338	0.0E+00	7.0E-01	7.41E+01		X	0.0E+00	7.0E-01		X	NC
60571	Dieldrin	2.14E+04	1.25E-02	4.74E-06	1.95E-01	6.18E-04	1.51E-05	25	613.32	842.25	17,000	**4.6E-03**	1.8E-04	3.81E+02		X	4.6E-03	1.8E-04		X	**1.00**
67641	Acetone	5.75E-01	1.06E-01	1.15E-05	1.00E+06	1.59E-03	3.50E-05	25	329.20	508.10	6,955	0.0E+00	3.1E+01	5.81E+01		X	0.0E+00	3.5E-01		X	NC
67663	Chloroform	3.98E+01	7.69E-02	1.09E-05	7.92E+03	1.50E-01	3.67E-03	25	334.32	536.40	6,988	**2.3E-05**	**9.8E-02**	1.19E+02			2.3E-05	0.0E+00			**1.00**
67721	Hexachloroethane	1.78E+03	2.50E-03	6.80E-06	5.00E+01	1.59E-01	3.88E-03	25	458.00	695.00	9,510	**1.1E-05**	3.5E-03	2.37E+02		X	4.0E-06	3.5E-03		X	**2.75**
71432	Benzene	5.89E+01	8.95E-02	1.03E-05	1.79E+03	2.27E-01	5.55E-03	25	353.24	562.16	7,342	**7.8E-06**	**3.0E-02**	7.81E+01			7.8E-06	0.0E+00			**1.00**
71556	1,1,1-Trichloroethane	1.10E+02	7.80E-02	8.80E-06	1.33E+03	7.03E-01	1.72E-02	25	347.24	545.00	7,136	0.0E+00	**1.0E+00**	1.33E+02			0.0E+00	2.2E+00			NC
72435	Methoxychlor	9.77E+04	1.56E-02	4.46E-06	1.00E-01	6.46E-04	1.58E-05	25	651.02	848.49	16,000	0.0E+00	1.8E-02	3.46E+02		X	0.0E+00	1.8E-02		X	NC
72559	DDE	4.47E+06	1.44E-02	5.87E-06	1.20E-01	8.59E-04	2.09E-05	25	636.44	860.38	15,000	**9.7E-05**	0.0E+00	3.18E+02	?		9.7E-05	0.0E+00	X		**1.00**
74839	Methyl bromide	1.05E+01	7.28E-02	1.21E-05	1.52E+04	2.55E-01	6.22E-03	25	276.71	467.00	5,714	0.0E+00	**5.0E-03**	9.49E+01			0.0E+00	5.0E-03			NC
74873	Methyl chloride (chloromethane)	2.12E+00	1.24E-01	1.36E-05	5.33E+03	3.61E-01	8.82E-03	25	249.00	416.25	5,115	1.8E-06	9.0E-02	5.05E+01			1.0E-06	9.0E-02			1.80
74908	Hydrogen cyanide	3.80E+00	1.93E-01	2.10E-05	1.00E+06	5.44E-03	1.33E-04	25	299.00	456.70	6,676	0.0E+00	3.0E-03	2.70E+01			0.0E+00	3.0E-03			NC
74953	Methylene bromide	1.26E+01	4.30E-02	8.44E-06	1.19E+04	3.52E-02	8.59E-04	25	370.00	583.00	7,868	0.0E+00	3.5E-02	1.74E+02		X	0.0E+00	3.5E-02		X	NC
75003	Chloroethane (ethyl chloride)	4.40E+00	1.04E-01	1.16E-05	5.68E+03	3.61E-01	1.11E-02	25	285.30	460.40	5,879		1.0E+01	6.45E+01	X		8.3E-07	1.0E+01	X		0.00
75014	Vinyl chloride (chloroethene)	1.86E+01	1.06E-01	1.23E-05	8.80E+03	1.10E+00	2.69E-02	25	259.25	432.00	5,250	**7.8E-05**	1.0E-01	6.25E+01			8.8E-06	1.0E-01			**8.86**
75058	Acetonitrile	4.20E+00	1.28E-01	1.66E-05	1.00E+06	1.42E-03	3.45E-05	25	354.60	545.50	7,110	0.0E+00	6.0E-02	4.11E+01			0.0E+00	6.0E-02			NC
75070	Acetaldehyde	1.06E+00	1.24E-01	1.41E-05	1.00E+06	3.23E-03	7.87E-05	25	293.10	466.00	6,157	**2.7E-06**	**9.0E-03**	4.41E+01			2.2E-06	9.0E-03			**1.23**
75092	Methylene chloride	1.17E+01	9.99E-02	1.25E-05	1.30E+04	8.96E-02	3.25E-03	25	313.00	510.00	6,706	**1.0E-08**	**6.0E-01**	8.49E+01			4.7E-07	3.0E+00			**0.02**
75150	Carbon disulfide	4.57E+01	1.06E-01	1.30E-05	1.19E+03	1.24E+00	1.44E-02	25	319.00	552.00	6,391	0.0E+00	7.0E-01	7.61E+01			0.0E+00	7.0E-01			NC
75218	Ethylene oxide	1.33E+00	1.04E-01	1.45E-05	3.04E+05	2.27E-02	5.54E-04	25	283.60	469.00	6,104	**8.8E-05**	**3.0E-02**	4.41E+01			1.0E-04	0.0E+00			**0.88**
75252	Bromoform	8.71E+01	3.57E-02	1.04E-05	3.10E+03	2.41E-02	5.35E-04	25	422.35	696.00	9,479	1.1E-06		2.53E+02		X	1.1E-06	7.0E-02		X	1.00
75274	Bromodichloromethane	5.50E+01	2.98E-02	1.06E-05	6.74E+03	6.54E-02	1.60E-03	25	363.15	585.85	7,800	**3.7E-05**	7.0E-02	1.64E+02	?	X	1.8E-05	7.0E-02	X	X	**2.09**
75296	2-Chloropropane	9.14E+00	8.88E-02	1.01E-05	3.73E+03	5.93E-01	1.45E-02	25	308.70	485.00	6,286	0.0E+00	1.0E-01	7.85E+01			0.0E+00	1.0E-01			NC
75343	1,1-Dichloroethane	3.16E+01	7.42E-02	1.05E-05	5.06E+03	2.30E-01	5.61E-03	25	330.55	523.00	6,895	**1.6E-06**	5.0E-01	9.90E+01			0.0E+00	5.0E-01			**CalEPA only**
75354	1,1-Dichloroethylene	5.89E+01	9.00E-02	1.04E-05	2.25E+03	1.07E+00	2.60E-02	25	304.75	576.05	6,247	0.0E+00	**7.0E-02**	9.69E+01			0.0E+00	2.0E-01			NC
75456	Chlorodifluoromethane	4.79E+01	1.01E-01	1.28E-05	2.00E+00	1.10E+00	2.70E-02	25	232.40	369.30	4,836	0.0E+00	5.0E+01	8.65E+01			0.0E+00	5.0E+01			NC
75694	Trichlorofluoromethane	4.97E+02	8.70E-02	9.70E-06	1.10E+03	3.97E+00	9.68E-02	25	296.70	471.00	5,999	0.0E+00	7.0E-01	1.37E+02			0.0E+00	7.0E-01			NC
75718	Dichlorodifluoromethane	4.57E+02	6.65E-02	9.92E-06	2.80E+02	1.40E+01	3.42E-01	25	243.20	384.95	9,421	0.0E+00	2.0E-01	1.21E+02			0.0E+00	2.0E-01			NC
76131	1,1,2-Trichloro-1,2,2-trifluoroethai	1.11E+04	7.80E-02	8.20E-06	1.70E+02	1.97E+01	4.80E-01	25	320.70	487.30	6,463	0.0E+00	3.0E+01	1.87E+02			0.0E+00	3.0E+01			NC
76448	Heptachlor	1.41E+06	1.12E-02	5.69E-06	1.80E-01	6.05E+01	1.48E+00	25	603.69	846.31	13,000	**1.6E-03**	1.8E-03	3.73E+02		X	1.3E-03	1.8E-03		X	**1.23**
77474	Hexachlorocyclopentadiene	2.00E+05	1.61E-02	7.21E-06	1.80E+00	1.10E+00	2.69E-02	25	512.15	746.00	10,931	0.0E+00	2.0E-04	2.73E+02			0.0E+00	2.0E-04			NC
78831	Isobutanol	2.59E+00	8.60E-02	9.30E-06	8.50E+04	4.83E-04	1.18E-05	25	381.04	547.78	10,936	0.0E+00	1.1E+00	7.41E+01		X	0.0E+00	1.1E+00		X	NC
78875	1,2-Dichloropropane	4.37E+01	7.33E-02	9.73E-06	2.80E+03	1.15E-01	2.82E-03	25	369.52	572.00	7,590	**1.0E-05**	4.0E-03	1.13E+02	?		1.9E-05	4.0E-03	X		**0.52**
78933	Methylethylketone (2-butanone)	2.30E+00	9.14E-02	1.02E-05	2.23E+05	2.29E-03	5.69E-05	25	352.50	536.78	7,481	0.0E+00	5.0E+00	7.21E+01			0.0E+00	1.0E+00			NC
79005	1,1,2-Trichloroethane	5.01E+01	7.80E-02	8.80E-06	4.42E+03	3.73E-02	9.11E-04	25	386.15	602.00	8,322	**1.6E-05**	1.4E-02	1.33E+02		X	1.6E-05	1.4E-02		X	**1.00**
79016	Trichloroethylene	1.66E+02	6.87E-02	1.02E-05	1.47E+03	4.21E-01	9.85E-03	25	360.36	544.20	7,505	**4.1E-06**	**2.0E-03**	1.31E+02	?		1.1E-04	4.0E-02	X		**0.04**
79209	Methyl acetate	3.26E+00	1.04E-01	1.00E-05	2.00E+03	4.84E-03	1.18E-04	25	329.80	506.70	7,260	0.0E+00	3.5E+00	7.41E+01		X	0.0E+00	3.5E+00		X	NC
79345	1,1,2,2-Tetrachloroethane	9.33E+01	7.10E-02	7.90E-06	2.96E+03	1.41E-02	3.44E-04	25	419.60	661.15	8,996	**5.8E-05**	2.1E-01	1.68E+02		X	5.8E-05	2.1E-01		X	**1.00**
79469	2-Nitropropane	1.17E+01	9.23E-02	1.01E-05	1.70E+04	5.03E-03	1.23E-04	25	393.20	594.00	8,383	2.7E-03	2.0E-02	8.91E+01			2.7E-03	2.0E-02			1.00
80626	Methylmethacrylate	6.98E+00	7.70E-02	8.60E-06	1.50E+04	1.38E-02	3.36E-04	25	373.50	567.00	8,975	0.0E+00	7.0E-01	1.00E+02			0.0E+00	7.0E-01			NC
83329	Acenaphthene	7.08E+03	4.21E-02	7.69E-06	3.57E+00	6.34E-03	1.55E-04	25	550.54	803.15	12,155	0.0E+00	2.1E-01	1.54E+02		X	0.0E+00	2.1E-01		X	NC
86737	Fluorene	1.38E+04	3.63E-02	7.88E-06	1.98E+00	2.60E-03	6.34E-05	25	570.44	870.00	12,666	0.0E+00	1.4E-01	1.66E+02		X	0.0E+00	1.4E-01		X	NC
87683	Hexachloro-1,3-butadiene	5.37E+04	5.61E-02	6.16E-06	3.20E+00	3.33E-01	8.13E-03	25	486.15	738.00	10,206	2.2E-05	7.0E-04	2.61E+02		X	2.2E-05	7.0E-04		X	1.00
88722	o-Nitrotoluene	3.24E+02	5.87E-02	8.67E-06	6.50E+02	5.11E-04	1.25E-05	25	495.00	720.00	12,239	0.0E+00	3.5E-02	1.37E+02		X	0.0E+00	3.5E-02		X	NC
91203	Naphthalene	2.00E+03	5.90E-02	7.50E-06	3.10E+01	1.98E-02	4.82E-04	25	491.14	748.40	10,373	**3.4E-05**	3.0E-03	1.28E+02			0.0E+00	3.0E-03			NC
91576	2-Methylnaphthalene	2.81E+03	5.22E-02	7.75E-06	2.46E+01	2.12E-02	5.17E-04	25	514.26	761.00	12,600	0.0E+00	7.0E-02	1.42E+02		X	0.0E+00	7.0E-02		X	NC
92524	Biphenyl	4.38E+03	4.04E-02	8.15E-06	7.45E+00	1.23E-02	2.99E-04	25	529.10	789.00	10,890	0.0E+00	1.8E-01	1.54E+02		X	0.0E+00	1.8E-01		X	NC
95476	o-Xylene	3.63E+02	6.89E-02	8.53E-06	1.78E+02	2.12E-01	5.18E-03	25	417.60	630.30	8,661	0.0E+00	1.0E-01	1.06E+02		?	0.0E+00	1.0E-01			NC
95501	1,2-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	1.56E+02	7.77E-02	1.90E-03	25	453.57	705.00	9,700	0.0E+00	2.0E-01	1.47E+02			0.0E+00	2.0E-01			NC
95578	2-Chlorophenol	3.88E+02	5.01E-02	9.46E-06	2.20E+04	1.60E-02	3.90E-04	25	447.53	675.00	9,572	0.0E+00	1.8E-02	1.29E+02		X	0.0E+00	1.8E-02		X	NC
95636	1,2,4-Trimethylbenzene	1.35E+03	6.06E-02	7.92E-06	5.70E+01	2.52E-01	6.14E-03	25	442.30	649.17	9,369	0.0E+00	6.0E-03	1.20E+02			0.0E+00	6.0E-03			NC
96184	1,2,3-Trichloropropane	2.20E+01	7.10E-02	7.90E-06	1.75E+03	1.67E-02	4.08E-04	25	430.00	652.00	9,171	5.7E-04	4.9E-03	1.47E+02	X		5.7E-04	4.9E-03	X		1.00
96333	Methyl acrylate	4.53E+00	9.76E-02	1.02E-05	6.00E+04	7.68E-03	1.87E-04	25	353.70	536.00	7,749	0.0E+00	1.1E-01	8.61E+01		X	0.0E+00	1.1E-01		X	NC
97632	Ethylmethacrylate	2.95E+01	6.53E-02	8.37E-06	3.67E+03	3.44E-02	8.40E-04	25	390.00	571.00	10,957	0.0E+00	3.2E-01	1.14E+02		X	0.0E+00	3.2E-01		X	NC
98066	tert-Butylbenzene	7.71E+02	5.65E-02	8.02E-06	2.95E+01	4.87E-01	1.19E-02	25	442.10	1220.00	8,980	0.0E+00	1.4E-01	1.34E+02		X	0.0E+00	1.4E-01		X	NC
98828	Cumene	4.89E+02	6.50E-02	7.10E-06	6.13E+01	4.74E+01	1.16E+00	25	425.56	631.10	10,335	0.0E+00	4.0E-01	1.20E+02			0.0E+00	4.0E-01			NC
98862	Acetophenone	5.77E+01	6.00E-02	8.73E-06	6.13E+03	4.38E-04	1.07E-05	25	475.00	709.50	11,732	0.0E+00	3.5E-01	1.20E+02		X	0.0E+00	3.5E-01		X	NC
98953	Nitrobenzene	6.46E+01	7.60E-02	8.60E-06	2.09E+03	9.82E-04	2.39E-05	25	483.95	719.00	10,566	0.0E+00	2.0E-03	1.23E+02			0.0E+00	2.0E-03			NC
100414	Ethylbenzene	3.63E+02	6.85E-02	8.46E-06	1.69E+02	3.22E-01	7.88E-03	25	409.34	617.20	8,501	2.5E-06	1.0E+00	1.06E+02			0.0E+00	1.0E+00			NC
100425	Styrene	7.76E+02	7.11E-02	8.78E-06	3.10E+02	1.12E-01	2.75E-03	25	418.31	636.00	8,737	0.0E+00	**1.0E+00**	1.04E+02			0.0E+00	1.0E+00			NC
100447	Benzylchloride	6.14E+01	7.50E-02	7.80E-06	5.25E+02	1.70E-02	4.14E-04	25	452.00	685.00	8,773	**4.9E-05**	0.0E+00	1.27E+02	?		4.9E-05	0.0E+00	X		**1.00**
100527	Benzaldehyde	4.59E+01	7.21E-02	9.07E-06	3.30E+03	9.73E-04	2.37E-05	25	452.00	695.00	11,658	0.0E+00	3.5E-01	1.06E+02		X	0.0E+00	3.5E-01		X	NC
103651	n-Propylbenzene	5.62E+02	6.01E-02	7.83E-06	6.00E+01	4.37E-01	1.07E-02	25	432.20	630.00	9,123	0.0E+00	1.4E-01	1.20E+02		X	0.0E+00	1.4E-01		X	NC
104518	n-Butylbenzene	1.11E+03	5.70E-02	8.12E-06	2.00E+00	5.38E-01	1.31E-02	25	456.46	660.50	9,290	0.0E+00	1.4E-01	1.34E+02		X	0.0E+00	1.4E-01		X	NC
106423	p-Xylene	3.89E+02	7.69E-02	8.44E-06	1.85E+02	3.13E-01	7.64E-03	25	411.52	616.20	8,525	0.0E+00	1.0E-01	1.06E+02		?	0.0E+00	1.0E-01			NC
106467	1,4-Dichlorobenzene	6.17E+02	6.90E-02	7.90E-06	7.90E+01	9.82E-02	2.39E-03	25	447.21	684.75	9,271	**1.1E-05**	**8.0E-01**	1.47E+02			0.0E+00	8.0E-01			**CalEPA only**
106934	1,2-Dibromoethane (ethylene dibr	2.50E+01	2.17E-02	1.19E-05	4.18E+03	3.04E-02	7.41E-04	25	404.60	583.00	8,310	**7.1E-05**	**8.0E-04**	1.88E+02			6.0E-04	9.0E-03			**0.12**
106990	1,3-Butadiene	1.91E+01	2.49E-01	1.08E-05	7.35E+02	3.01E+00	7.34E-02	25	268.60	425.00	5,370	**1.7E-04**	2.0E-03	5.41E+01			3.0E-05	0.0E+00			**5.67**
107028	Acrolein	2.76E+00	1.05E-01	1.22E-05	2.13E+05	4.99E-03	1.22E-04	25	325.60	506.00	6,731	0.0E+00	2.0E-05	5.61E+01			0.0E+00	2.0E-05			NC
107062	1,2-Dichloroethane	1.74E+01	1.04E-01	9.90E-06	8.52E+03	4.00E-02	9.77E-04	25	356.65	561.00	7,643	**2.1E-05**	**4.0E-01**	9.90E+01			2.6E-05	0.0E+00			**0.81**
107131	Acrylonitrile	5.90E+00	1.22E-01	1.34E-05	7.40E+04	4.21E-03	1.03E-04	25	350.30	519.00	7,786	**2.9E-04**	2.0E-03	5.31E+01			6.8E-05	2.0E-03			**4.26**
108054	Vinyl acetate	5.25E+00	8.49E-02	1.00E-05	2.00E+04	2.09E-02	5.11E-04	25	345.65	519.13	7,800	0.0E+00	**2.0E-01**	8.61E+01			0.0E+00	2.0E-01			NC
108101	Methylisobutylketone (4-methyl-2-	9.06E+00	6.98E-02	8.35E-06	1.90E+04	5.64E-03	1.38E-04	25	389.50	571.00	8,243	0.0E+00	3.0E+00	1.00E+02			0.0E+00	8.0E-02			NC
108383	m-Xylene	4.07E+02	7.00E-02	7.80E-06	1.61E+02	3.00E-01	7.32E-03	25	412.27	617.05	8,523	0.0E+00	1.0E-01	1.06E+02		?	0.0E+00	1.0E-01			NC
108678	1,3,5-Trimethylbenzene	1.35E+03	6.02E-02	8.67E-06	2.00E+00	2.41E-01	5.87E-03	25	437.89	637.25	9,321	0.0E+00	6.0E-03	1.20E+02			0.0E+00	6.0E-03			NC
108872	Methylcyclohexane	7.85E+01	7.35E-02	8.52E-06	1.40E+01	4.22E+00	1.03E-01	25	373.90	572.20	7,474	0.0E+00	3.0E+00	9.82E+01			0.0E+00	3.0E+00			NC
108883	Toluene	1.82E+02	7.78E-02	9.20E-06	5.26E+02	2.72E-01	6.64E-03	25	383.78	591.79	7,930	0.0E+00	**5.0E+00**	9.21E+01			0.0E+00	4.0E-01			NC
108907	Chlorobenzene	2.19E+02	7.30E-02	8.70E-06	4.72E+02	1.51E-01	3.69E-03	25	404.87	632.40	8,410	0.0E+00	**1.0E+00**	1.13E+02			0.0E+00	6.0E-02			NC
109693	1-Chlorobutane	1.72E+01	8.26E-02	1.00E-05	1.10E+03	6.93E-01	1.69E-02	25	351.60	542.00	7,263	0.0E+00	1.4E+00	9.26E+01		X	0.0E+00	1.4E+00		X	NC
110009	Furan	1.86E+01	1.04E-01	1.22E-05	1.00E+04	2.21E-01	5.39E-03	25	304.60	490.20	6,477	0.0E+00	3.5E-03	6.81E+01		X	0.0E+00	3.5E-03		X	NC
110543	Hexane	4.34E+01	2.00E-01	7.77E-06	1.24E+01	6.82E+01	1.66E+00	25	341.70	508.00	6,895	0.0E+00	2.0E-01	8.62E+01			0.0E+00	2.0E-01			NC
111444	Bis(2-chloroethyl)ether	1.55E+01	6.92E-02	7.53E-06	1.72E+04	7.36E-04	1.80E-05	25	451.15	659.79	10,803	**7.1E-04**	0.0E+00	1.43E+02			3.3E-04	0.0E+00			**2.15**
115297	Endosulfan	2.14E+03	1.15E-02	4.55E-06	5.10E-01	4.58E-04	1.12E-05	25	674.43	942.94	14,000	0.0E+00	2.1E-02	4.07E+02		X	0.0E+00	2.1E-02		X	NC
118741	Hexachlorobenzene	5.50E+04	5.42E-02	5.91E-06	5.00E-03	5.40E-02	1.32E-03	25	582.55	825.00	14,447	**5.1E-04**	2.8E-03	2.85E+02		X	4.6E-04	2.8E-03		X	**1.11**
120821	1,2,4-Trichlorobenzene	1.78E+03	3.00E-02	8.23E-06	4.88E+01	5.81E-02	1.42E-03	25	486.15	725.00	10,471	0.0E+00	2.0E-01	1.81E+02			0.0E+00	2.0E-01			NC
123739	Crotonaldehyde (2-butenal)	4.82E+00	9.56E-02	1.07E-05	3.69E+04	7.99E-04	1.95E-05	25	375.20	568.00	9	5.4E-04	0.0E+00	7.01E+01	X		5.4E-04	0.0E+00	X		1.00
124481	Chlorodibromomethane	6.31E+01	1.96E-02	1.05E-05	2.60E+03	3.20E-02	7.81E-04	25	416.14	678.20	5,900	**2.7E-05**	7.0E-02	2.08E+02	?	X	2.4E-05	7.0E-02	X	X	**1.13**
126987	Methacrylonitrile	3.58E+01	1.12E-01	1.32E-05	2.54E+04	1.01E-02	2.46E-04	25	363.30	554.00	7,600	0.0E+00	7.0E-04	6.71E+01			0.0E+00	7.0E-04			NC
126998	2-Chloro-1,3-butadiene (chloropre	6.73E+01	8.58E-02	1.03E-05	2.12E+03	4.91E-01	1.20E-02	25	332.40	525.00	8,075	0.0E+00	7.0E-03	8.85E+01			0.0E+00	7.0E-03			NC
127184	Tetrachloroethylene	1.55E+02	5.05E-02	9.46E-06	2.00E+02	7.53E-01	1.77E-02	25	394.40	620.20	8,288	**2.6E-07**	**4.0E-02**	1.66E+02			3.0E-06	0.0E+00			**0.09**
129000	Pyrene	1.05E+05	2.72E-02	7.24E-06	1.35E+00	4.50E-04	1.10E-05	25	667.95	936	14370	0.0E+00	1.1E-01	2.02E+02		X	0.0E+00	1.1E-01		X	NC
132649	Dibenzofuran	5.15E+03	2.38E-02	6.00E-06	3.10E+00	5.15E-04	1.26E-05	25	560	824	66400	0.0E+00	1.4E-02	1.68E+02		X	0.0E+00	1.4E-02		X	NC
135988	sec-Butylbenzene	9.66E+02	5.70E-02	8.12E-06	3.94E+00	5.68E-01	1.39E-02	25	446.5	679	88730	0.0E+00	1.4E-01	1.34E+02		X	0.0E+00	1.4E-01		X	NC
141786	Ethylacetate	6.44E+00	7.32E-02	9.70E-06	8.03E+04	5.64E-03	1.38E-04	25	350.26	523.3	7633.66	0.0E+00	3.2E+00	8.81E+01		X	0.0E+00	3.2E+00		X	NC
156592	cis-1,2-Dichloroethylene	3.55E+01	8.84E-02	1.13E-05	3.50E+03	1.67E-01	4.08E-03	25	333.65	544	7192	0.0E+00		9.69E+01		X	0.0E+00	3.5E-02		X	NC
156605	trans-1,2-Dichloroethylene	5.25E+01	7.07E-02	1.19E-05	6.30E+03	3.84E-01	9.36E-03	25	320.85	516.5	6717	0.0E+00	7.0E-02	9.69E+01		X	0.0E+00	7.0E-02		X	NC
205992	Benzo(b)fluoranthene	1.23E+06	2.26E-02	5.56E-06	1.50E-03	4.54E-03	1.11E-04	25	715.9	969.27	17000	**1.1E-04**	0.0E+00	2.52E+02	?		2.1E-04	0.0E+00	X		**0.53**
218019	Chrysene	3.98E+05	2.48E-02	6.21E-06	6.30E-03	3.87E-03	9.44E-05	25	714.15	979	16455	**1.1E-05**	0.0E+00	2.28E+02	?		2.1E-06	0.0E+00	X		**5.26**
309002	Aldrin	2.45E+06	1.32E-02	4.86E-06	1.70E-02	6.95E-03	1.70E-04	25	603.01	839.37	15000	**4.9E-03**	1.1E-04	3.65E+02		X	4.9E-03	1.1E-04		X	**1.00**
319846	alpha-HCH (alpha-BHC)	1.23E+03	1.42E-02	7.34E-06	2.00E+00	4.34E-04	1.06E-05	25	596.55	839.36	15000	**7.7E-04**	0.0E+00	2.91E+02			1.8E-03	0.0E+00			**0.43**
541731	1,3-Dichlorobenzene	1.98E+03	6.92E-02	7.86E-06	1.34E+02	1.27E-01	3.09E-03	25	446	684	9230.18	0.0E+00	1.1E-01	1.47E+02		X	0.0E+00	1.1E-01		X	NC
542756	1,3-Dichloropropene	4.57E+01	6.26E-02	1.00E-05	2.80E+03	7.24E-01	1.77E-02	25	381.15	587.38	7900	**1.6E-05**	2.0E-02	1.11E+02			4.0E-06	2.0E-02			**4.00**
591786	2-Hexanone	1.50E+01	7.04E-02	8.44E-06	1.72E+04	3.81E-03	9.32E-05	25	401	60.1	8610	0.0E+00	3.0E-02	1.00E+02							
630206	1,1,1,2-Tetrachloroethane	1.16E+02	7.10E-02	7.90E-06	1.10E+03	9.90E-02	2.41E-03	25	403.5	624	9768.282525	7.4E-06	1.1E-01	1.68E+02		X	7.4E-06	1.1E-01		X	1.00
1634044	MTBE	7.26E+00	1.02E-01	1.05E-05	5.10E+04	2.56E-02	6.23E-04	25	328.3	497.1	6677.66	**2.6E-07**	3.0E+00	8.82E+01			0.0E+00	3.0E+00			**CalEPA only**
7439976	Mercury (elemental)	5.20E+01	3.07E-02	6.30E-06	2.00E+01	4.40E-01	1.07E-02	25	629.88	1750	14127	0.0E+00	**9.0E-05**	2.01E+02			0.0E+00	3.0E-04			NC

APPENDIX C

2014 Soil and Soil Vapor Sample Analytical Results (on CD)

Appendix C
2014 Soil Sample Analytical Results for SWMU 127
Cannon Air Force Base

		Station Name		127-SB19		127-SB20		127-SB21		127-SB22		127-SB23	
		Field Sample ID		127-SB19-00		127-SB20-00		127-SB21-00		127-SB22-00		127-SB23-00	
		Sample Date		8/25/2014 10:50		8/25/2014 11:42		8/25/2014 11:31		8/25/2014 11:09		8/26/2014 16:38	
		Depth		0 - 0.5 FT		0 - 0.5 FT		0 - 0.5 FT		0 - 0.5 FT		1.5 - 2.5 FT	
		NMED SSL Concentration [1]											
Analyte	Units	Residential	Industrial	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual
Polycyclic Aromatic Hydrocarbons (PAH)													
2-METHYLNAPHTHALENE	µg/kg	2.30E+05 [2]	2.20E+06 [2]	7.10E+01	J	1.50E+00	U	2.90E+00		3.70E+01	J		
ACENAPHTHENE	µg/kg	3.44E+06	3.67E+07	5.80E+02		1.30E+00	J	7.70E-01	J	3.20E+02			
ACENAPHTHYLENE	µg/kg	Not Est.	Not Est.	1.10E+03		1.20E+00	J	1.10E+00	J	5.50E+02			
ANTHRACENE	µg/kg	1.72E+07	1.83E+08	4.40E+03		4.30E+00		4.50E+00		2.70E+03			
BENZO(A)ANTHRACENE	µg/kg	1.48E+03	2.34E+04	4.40E+04		4.90E+01		4.40E+01		2.40E+04			
BENZO(A)PYRENE	µg/kg	1.48E+02	2.34E+03	5.70E+04		8.10E+01		7.40E+01		3.10E+04			
BENZO(B)FLUORANTHENE	µg/kg	1.48E+03	2.34E+04	9.30E+04		1.40E+02		1.30E+02		5.00E+04			
BENZO(G,H,I)PERYLENE	µg/kg	Not Est.	Not Est.	3.90E+04		7.40E+01		6.20E+01		2.10E+04			
BENZO(K)FLUORANTHENE	µg/kg	1.48E+04	2.34E+05	2.70E+04		4.70E+01		4.50E+01		1.40E+04			
CHRYSENE	µg/kg	1.48E+05	2.34E+06	6.80E+04		9.60E+01		9.00E+01		3.70E+04			
DIBENZ(A,H)ANTHRACENE	µg/kg	1.48E+02	2.34E+03	1.00E+04		1.30E+01		1.10E+01		4.70E+03			
FLUORANTHENE	µg/kg	2.29E+06	2.44E+07	1.20E+05		1.50E+02		1.30E+02		6.50E+04			
FLUORENE	µg/kg	2.29E+06	2.44E+07	7.70E+02		1.20E+00	U	7.60E-01	U	4.60E+02			
INDENO(1,2,3-C,D)PYRENE	µg/kg	1.48E+03	2.34E+04	5.10E+04		9.00E+01		7.50E+01		3.00E+04			
NAPHTHALENE	µg/kg	4.30E+04	2.41E+05	1.50E+02		1.40E+00	J	2.00E+00	J	7.90E+01			
PHENANTHRENE	µg/kg	1.83E+06	2.05E+07	4.00E+04		5.30E+01		4.30E+01		2.20E+04			
PYRENE	µg/kg	1.72E+06	1.83E+07	9.90E+04		1.40E+02		1.10E+02		5.80E+04			
E160.3													
TOTAL SOLIDS	percent	Not Est.	Not Est.	97.2		92.7		96.5		98.3		86.5	
SW8015C													
Diesel Range Organics (TPH-DRO)	mg/kg	1.00E+03	1.00E+03									6.10E+00	J
Gasoline Range Organics (TPH-GRO)	mg/kg	1.00E+03	1.00E+03									1.50E+00	U
Residual Range Organics (TPH-RRO)	mg/kg	1.00E+03	1.00E+03									6.60E+00	U

Notes:

[1] New Mexico Environment Department (NMED), 2012. Table A-1: NMED Soil Screening Levels, Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document , Hazardous Waste Bureau and the Ground Water Quality Bureau - Voluntary Remediation Program, February 2012, Table A-1 updated June 2012.

[2] No NMED SSL Established. U.S. Environmental Protection Agency (EPA), 2013. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, May.

J - Concentration is estimated

U - Concentration was not detected above the detection limit shown

Valid Qual - Validation Qualifier

µg/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Shaded results exceed the NMED SSL for that compound

Appendix C
2014 Soil Gas Sample Analytical Results at SWMU 127
Cannon Air Force Base

	Station Name	127-SV01		127-SV01		127-SV02		127-SV02		127-SV03		127-SV03		127-SV04		127-SV04		127-SV05		127-SV05		127-SV06		127-SV06	
	Field Sample ID	127-SV01-05		127-SV01-10		127-SV02-05		127-SV02-10		127-SV03-05		127-SV03-10		127-SV04-05		127-SV04-10		127-SV05-05		127-SV05-10		127-SV06-05		127-SV06-10	
	Sample Date	8/25/2014 15:39		8/25/2014 16:21		8/26/2014 8:20		8/26/2014 9:00		8/26/2014 9:32		8/26/2014 10:05		8/26/2014 10:50		8/26/2014 11:35		8/26/2014 13:45		8/26/2014 14:11		8/26/2014 14:40		8/27/2014 7:17	
	Depth	5 FT		10 FT		5 FT		10 FT		5 FT		10 FT		5 FT		10 FT		5 FT		10 FT		5 FT		10 FT	
Analyte	Units	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual
E3C																									
CARBON DIOXIDE	%V/V	5.28E-01		2.98E-01		1.53E+00		6.91E-01		3.42E-01		1.08E+00		1.38E+00		1.38E+00		2.03E+00		1.86E+00		1.80E-01	U	1.20E+00	
CARBON MONOXIDE	%V/V	1.70E-01	U	1.40E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.60E-01	U	1.80E-01	U	1.90E-01	U	1.80E-01	U	1.80E-01	U	1.80E-01	U	1.70E-01	U
HYDROGEN	%V/V	1.70E-01	U	1.40E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.60E-01	U	1.80E-01	U	1.90E-01	U	1.80E-01	U	1.80E-01	U	1.80E-01	U	1.70E-01	U
METHANE	%V/V	1.70E-01	U	1.40E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.60E-01	U	1.80E-01	U	1.90E-01	U	1.80E-01	U	1.80E-01	U	1.80E-01	U	1.70E-01	U
NITROGEN, NITRATE (AS N)	%V/V	7.79E+01		7.80E+01		7.74E+01		7.79E+01		7.79E+01		7.78E+01		7.72E+01		7.77E+01		7.74E+01		7.77E+01		7.80E+01		7.78E+01	
OXYGEN + ARGON	%V/V	2.16E+01		2.17E+01		2.11E+01		2.14E+01		2.18E+01		2.11E+01		2.14E+01		2.09E+01		2.05E+01		2.04E+01		2.19E+01		2.10E+01	
MADEPVP																									
VOLATILE PETROLEUM HYDROCARBONS C5-C8 ALIPHATIC	$\mu g/m^3$	1.90E+02		2.00E+02		1.20E+02		2.20E+02		1.50E+02		4.90E+02		1.80E+02		2.10E+02		2.70E+02		2.50E+02		2.10E+02		1.60E+02	
VOLATILE PETROLEUM HYDROCARBONS C9-C10 AROMATIC	$\mu g/m^3$	2.90E+01		8.60E+00	U	1.00E+01	U	1.10E+01	U	1.10E+01	U	1.00E+01	U	1.10E+01	U	1.60E+01	U	1.10E+01	U	1.10E+01	U	3.80E+01		3.60E+01	
VOLATILE PETROLEUM HYDROCARBONS C9-C12 ALIPHATIC	$\mu g/m^3$	2.00E+02		4.30E+01		4.90E+01		6.50E+01		4.30E+01	U	5.30E+01		6.60E+01		6.70E+01		8.80E+01		4.60E+01	U	4.40E+01	U	9.10E+01	
TO15																									
1,1,1-TRICHLOROETHANE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
1,1,2,2-TETRACHLOROETHANE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
1,1,2-TRICHLOROETHANE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
1,1-DICHLOROETHANE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
1,1-DICHLOROETHENE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
1,2-DICHLOROETHANE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
1,2-DICHLOROPROPANE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
2-HEXANONE	$\mu g/m^3$	4.80E+00		9.00E-01	J	9.20E-01	J	1.50E+00	J	2.90E+00		4.60E+00		1.70E+00	J	3.10E+00	U	3.30E+00		1.80E+00	J	2.20E+00	U	2.40E+00	
ACETONE	$\mu g/m^3$	4.20E+02		1.00E+02		8.60E+01		1.90E+02		2.60E+02		3.60E+02		2.00E+02		1.00E+02		1.80E+02		1.30E+02		6.40E+01		1.10E+02	
BENZENE	$\mu g/m^3$	1.70E+00	J	1.70E+00	J	9.40E-01	J	1.30E+00	J	1.10E+00	J	6.70E+00		2.00E+00	J	3.10E+00	U	9.50E-01	J	9.60E-01	J	2.80E+00		1.10E+00	J
BROMODICHLOROMETHANE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
BROMOFORM	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
BROMOMETHANE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
CARBON DISULFIDE	$\mu g/m^3$	3.80E+00	J	1.50E+00	J	9.80E-01	J	1.10E+00	J	2.80E+00	J	2.80E+00	J	4.20E+00	J	1.40E+00	J	2.00E+00	J	8.10E-01	J	8.10E-01	J	1.00E+00	J
CARBON TETRACHLORIDE	$\mu g/m^3$	7.60E-01	J	6.30E-01	J	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	7.40E-01	J	2.20E+00	U	2.10E+00	U
CHLOROBENZENE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
CHLOROETHANE	$\mu g/m^3$	1.00E+00	J	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
CHLOROFORM	$\mu g/m^3$	7.80E-01	J	1.70E+00	U	2.10E+00	U	1.30E+00	J	2.20E+00	U	1.10E+00	J	2.30E+00	U	2.30E+00	J	2.30E+00	U	3.50E+00		2.20E+00	U	1.60E+00	J
CHLOROMETHANE	$\mu g/m^3$	1.60E+00	J	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
CIS-1,2-DICHLOROETHYLENE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
CIS-1,3-DICHLOROPROPENE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
DIBROMOCHLOROMETHANE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
ETHYLBENZENE	$\mu g/m^3$	2.20E+00	U	6.50E-01	J	2.10E+00	U	2.10E+00	U	2.20E+00	U	7.30E-01	J	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
M,P-XYLENE (SUM OF ISOMERS)	$\mu g/m^3$	4.40E+00	U	1.70E+00	J	4.20E+00	U	4.30E+00	U	4.30E+00	U	1.40E+00	J	4.50E+00	U	6.20E+00	U	4.60E+00	U	4.60E+00	U	4.40E+00	U	4.30E+00	U
METHYL ETHYL KETONE (2-BUTANONE)	$\mu g/m^3$	3.30E+01		2.50E+01		1.90E+01	J	3.70E+01		5.20E+01		7.30E+01		4.30E+01		2.10E+01	J	4.10E+01		2.00E+01	J	1.60E+01	J	2.60E+01	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	$\mu g/m^3$	6.10E+00		8.90E-01	J	7.70E-01	J	1.20E+00	J	2.00E+00	J	3.40E+00		1.30E+00	J	3.10E+00	U	1.90E+00	J	1.30E+00	J	7.70E-01	J	1.50E+00	J
METHYLENE CHLORIDE	$\mu g/m^3$	7.50E-01	J	3.60E+00		2.10E+00	U	2.10E+00	U	2.20E+00	U	8.20E-01	J	1.20E+00	J	1.30E+00	J	2.30E+00		2.90E+00		5.10E+00		4.40E+00	
O-XYLENE (1,2-DIMETHYLBENZENE)	$\mu g/m^3$	2.20E+00	U	8.90E-01	J	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
STYRENE	$\mu g/m^3$	8.00E-01	J	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
TETRACHLOROETHYLENE(PCE)	$\mu g/m^3$	5.00E+00		6.00E+00		1.20E+01		8.80E+00		1.90E+00	J	9.80E+00		9.50E+00		2.40E+01		2.90E+01		3.40E+01		2.20E+00	U	1.90E+01	
TOLUENE	$\mu g/m^3$	1.40E+00	J	6.90E+00		1.30E+00	J	1.70E+00	J	1.20E+00	J	6.30E+00		1.80E+00	J	3.10E+00	U	1.00E+00	J	2.30E+00	U	2.90E+00		2.20E+00	
TRANS-1,2-DICHLOROETHENE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
TRANS-1,3-DICHLOROPROPENE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
TRICHLOROETHYLENE (TCE)	$\mu g/m^3$	1.20E+02		1.80E+02		1.60E+02		2.90E+02		2.60E+01		3.10E+02		6.00E+01		5.20E+02		2.80E+02		9.20E+02		7.20E-01	J	4.50E+02	
VINYL ACETATE	$\mu g/m^3$	1.80E+01	J	1.50E+01	J	9.00E+00	J	1.40E+01	J	1.40E+01	J	3.30E+01		2.10E+01	J	1.40E+01	J	3.90E+01		2.30E+01		1.10E+01	J	2.50E+01	
VINYL CHLORIDE	$\mu g/m^3$	2.20E+00	U	1.70E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.00E+00	U	2.30E+00	U	3.10E+00	U	2.30E+00	U	2.30E+00	U	2.20E+00	U	2.10E+00	U
TO3																									
GASOLINE COMPONENTS	mg/m^3	4.10E+00	J	2.50E+01	U	3.00E+01	U	3.10E+01	U	2.60E+00	J	2.90E+01	U	3.20E+01	U	3.40E+01	U	3.30E+01	U	3.30E+01	U	3.20E+01	U	3.10E+01	U

Notes:

J - Concentration is estimated

U - Concentration was not detected above the detection limit shown

Valid Qual - Validation Qualifier

$\mu g/m^3$ - micrograms per cubic meter

Appendix C
2014 Soil Gas Sample Analytical Results at SWMU 127
Cannon Air Force Base

Station Name	127-SV01	127-SV01	127-SV02	127-SV02	127-SV03	127-SV03	127-SV04	127-SV04	127-SV05	127-SV05	127-SV06	127-SV06
Field Sample ID	127-SV01-05	127-SV01-10	127-SV02-05	127-SV02-10	127-SV03-05	127-SV03-10	127-SV04-05	127-SV04-10	127-SV05-05	127-SV05-10	127-SV06-05	127-SV06-10
Sample Date	8/25/2014 15:39	8/25/2014 16:21	8/26/2014 8:20	8/26/2014 9:00	8/26/2014 9:32	8/26/2014 10:05	8/26/2014 10:50	8/26/2014 11:35	8/26/2014 13:45	8/26/2014 14:11	8/26/2014 14:40	8/27/2014 7:17

mg/m^3 - milligrams per cubic meter

Appendix C
2014 Soil Gas Sample Analytical Results at SWMU 127
Cannon Air Force Base

	Station Name	127-SV07		127-SV07		127-SV08		127-SV08		127-SV09		127-SV09		127-SV10		127-SV10		127-SV11		127-SV11	
	Field Sample ID	127-SV07-05		127-SV07-10		127-SV08-05		127-SV08-10		127-SV09-05		127-SV09-10		127-SV10-05		127-SV10-10		127-SV11-05		127-SV11-10	
	Sample Date	8/27/2014 7:45		8/27/2014 8:25		8/27/2014 8:55		8/27/2014 9:20		8/27/2014 9:46		8/27/2014 10:15		8/27/2014 10:45		8/27/2014 11:20		8/27/2014 11:50		8/27/2014 12:15	
	Depth	5 FT		10 FT		5 FT		10 FT		5 FT		10 FT		5 FT		10 FT		5 FT		10 FT	
Analyte	Units	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual	Result	Valid Qual
E3C																					
CARBON DIOXIDE	%V/V	1.60E-01	U	1.60E-01	U	1.70E-01	U	1.70E-01	U	1.42E+00		1.38E+00		8.62E-01		1.53E+00		2.57E+00		1.70E-01	U
CARBON MONOXIDE	%V/V	1.60E-01	U	1.60E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.80E-01	U	1.70E-01	U
HYDROGEN	%V/V	1.60E-01	U	1.60E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.80E-01	U	1.70E-01	U
METHANE	%V/V	1.60E-01	U	1.60E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.70E-01	U	1.80E-01	U	1.70E-01	U
NITROGEN, NITRATE (AS N)	%V/V	7.81E+01		7.80E+01		7.81E+01		7.81E+01		7.74E+01		7.77E+01		7.77E+01		7.77E+01		7.74E+01		7.81E+01	
OXYGEN + ARGON	%V/V	2.18E+01		2.19E+01		2.18E+01		2.19E+01		2.12E+01		2.09E+01		2.14E+01		2.08E+01		2.01E+01		2.19E+01	
MADEPVP																					
VOLATILE PETROLEUM HYDROCARBONS C5-C8 ALIPHATIC	$\mu g/m^3$	4.70E+02		1.40E+03		4.50E+02		3.90E+02		1.40E+03		2.70E+02		1.40E+03		2.30E+02		3.60E+02		4.40E+02	
VOLATILE PETROLEUM HYDROCARBONS C9-C10 AROMATIC	$\mu g/m^3$	6.60E+01		2.30E+02		5.50E+01		2.40E+01		1.80E+01		1.30E+01		9.40E+01		1.80E+01		1.60E+01		1.50E+01	
VOLATILE PETROLEUM HYDROCARBONS C9-C12 ALIPHATIC	$\mu g/m^3$	4.00E+03		5.30E+03		3.50E+03		2.40E+03		3.50E+03		2.80E+03		4.30E+03		3.10E+03		5.10E+03		5.90E+03	
TO15																					
1,1,1-TRICHLOROETHANE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
1,1,2,2-TETRACHLOROETHANE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
1,1,2-TRICHLOROETHANE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
1,1-DICHLOROETHANE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
1,1-DICHLOROETHENE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
1,2-DICHLOROETHANE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
1,2-DICHLOROPROPANE	$\mu g/m^3$	7.10E-01	J	1.00E+00	J	7.70E-01	J	1.00E+00	J	1.10E+00	J	8.90E-01	J	2.10E+00	U	9.10E-01	J	8.50E-01	J	1.00E+00	J
2-HEXANONE	$\mu g/m^3$	2.80E+00		2.00E+00	U	2.80E+00		2.20E+00		2.10E+00	U	2.10E+00	U	2.10E+00	U	1.30E+00	J	2.40E+00		2.10E+00	U
ACETONE	$\mu g/m^3$	1.60E+02		2.00E+02		2.40E+02		1.90E+02		1.40E+02		1.30E+02		1.80E+02		1.10E+02		1.60E+02		1.30E+02	
BENZENE	$\mu g/m^3$	3.30E+00		2.00E+00	J	1.90E+00	J	1.60E+00	J	1.70E+00	J	1.40E+00	J	3.90E+00	J	1.10E+00	J	1.70E+00	J	2.40E+00	
BROMODICHLOROMETHANE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
BROMOFORM	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
BROMOMETHANE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
CARBON DISULFIDE	$\mu g/m^3$	2.70E+00	J	1.30E+00	J	1.50E+00	J	1.50E+00	J	2.00E+00	J	3.10E+00	J	2.10E+00	J	1.20E+00	J	1.80E+00	J	8.50E-01	J
CARBON TETRACHLORIDE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
CHLOROBENZENE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
CHLOROETHANE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
CHLOROFORM	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	7.10E-01	J	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
CHLOROMETHANE	$\mu g/m^3$	7.50E-01	J	7.80E-01	J	6.50E-01	J	7.40E-01	J	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	8.70E-01	J
CIS-1,2-DICHLOROETHYLENE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	3.80E+00		2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
CIS-1,3-DICHLOROPROPENE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
DIBROMOCHLOROMETHANE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
ETHYLBENZENE	$\mu g/m^3$	3.90E+00		6.60E+00		4.40E+00		4.50E+00		4.40E+00		3.40E+00		6.70E+00		3.70E+00		3.50E+00		3.90E+00	
M,P-XYLENE (SUM OF ISOMERS)	$\mu g/m^3$	1.20E+01		2.20E+01		1.40E+01		1.30E+01		1.30E+01		9.80E+00		2.50E+01		1.20E+01		1.10E+01		1.10E+01	
METHYL ETHYL KETONE (2-BUTANONE)	$\mu g/m^3$	4.00E+01		2.00E+01	J	3.10E+01		1.80E+01	J	2.00E+01	J	1.90E+01	J	3.10E+01		1.20E+01	J	3.10E+01		1.60E+01	J
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	$\mu g/m^3$	1.60E+00	J	1.50E+00	J	1.70E+00	J	1.50E+00	J	1.40E+00	J	1.10E+00	J	1.50E+00	J	8.00E-01	J	1.50E+00	J	1.30E+00	J
METHYLENE CHLORIDE	$\mu g/m^3$	6.90E-01	J	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.90E+00		2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
O-XYLENE (1,2-DIMETHYLBENZENE)	$\mu g/m^3$	4.80E+00		1.10E+01		4.80E+00		4.50E+00		4.10E+00		3.20E+00		1.00E+01		3.90E+00		3.60E+00		3.60E+00	
STYRENE	$\mu g/m^3$	2.10E+00		2.40E+00		2.30E+00		2.20E+00		2.20E+00		1.90E+00	J	3.40E+00	J	2.10E+00		2.40E+00		2.70E+00	
TETRACHLOROETHYLENE(PCE)	$\mu g/m^3$	9.60E-01	J	9.70E-01	J	7.40E-01	J	4.10E+00		3.30E+00		1.40E+01		7.60E+00		1.60E+01		2.80E+01		2.10E+00	U
TOLUENE	$\mu g/m^3$	3.80E+01		3.30E+01		3.10E+01		3.40E+01		3.40E+01		3.00E+01		2.60E+01		2.90E+01		2.80E+01		3.40E+01	
TRANS-1,2-DICHLOROETHENE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
TRANS-1,3-DICHLOROPROPENE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
TRICHLOROETHYLENE (TCE)	$\mu g/m^3$	5.60E+00		1.60E+00	J	4.40E+00		3.30E+00		3.20E+01		3.90E+02		8.20E+01		4.40E+02		2.40E+02		1.80E+00	J
VINYL ACETATE	$\mu g/m^3$	2.40E+01		8.90E+00	J	2.20E+01		9.40E+00	J	4.40E+01		2.10E+01	J	1.50E+01	J	8.30E+00	J	1.80E+01	J	1.00E+01	J
VINYL CHLORIDE	$\mu g/m^3$	1.90E+00	U	2.00E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.10E+00	U	2.20E+00	U	2.10E+00	U
TO3																					
GASOLINE COMPONENTS	mg/m^3	5.50E+00	J	7.70E+00	J	4.60E+00	J	2.70E+00	J	5.00E+00	J	2.70E+00	J	8.40E+00	J	5.60E+00	J	6.70E+00	J	8.20E+00	J

Notes:

J - Concentration is estimated

U - Concentration was not detected above the detection limit shown

Valid Qual - Validation Qualifier

$\mu g/m^3$ - micrograms per cubic meter

Appendix C
2014 Soil Gas Sample Analytical Results at SWMU 127
Cannon Air Force Base

Station Name	127-SV07	127-SV07	127-SV08	127-SV08	127-SV09	127-SV09	127-SV10	127-SV10	127-SV11	127-SV11
Field Sample ID	127-SV07-05	127-SV07-10	127-SV08-05	127-SV08-10	127-SV09-05	127-SV09-10	127-SV10-05	127-SV10-10	127-SV11-05	127-SV11-10
Sample Date	8/27/2014 7:45	8/27/2014 8:25	8/27/2014 8:55	8/27/2014 9:20	8/27/2014 9:46	8/27/2014 10:15	8/27/2014 10:45	8/27/2014 11:20	8/27/2014 11:50	8/27/2014 12:15

mg/m^3 - milligrams per cubic meter