EXHIBIT 68

ATTACHMENT I

Final Response to Phase I Audit Results

April 1987

Diamond Shamrock

May 7, 1987

Mr. David Kindig
NJ Department of Environmental Protection
Division of Site Management
401 E. State Street
Trenton, NJ 08625

Dear Mr. Kindig:

Enclosed please find our final response to the results of the analytical audit performed by NUS for the Phase I sample data generated from the 80 Lister Avenue site investigation. Per your request, we have presented the qualifiers in full, as recommended by NUS. The accompanying written text summarizes the findings of our review of the NUS audit reports, and is designed to support our position that there is no significant impact on the site assessment/feasibility conclusions or recommendations.

The document is also designed to stand alone while still functioning as an addendum to the Site Evaluation Report for 80 Lister Avenue (February, 1985). As such, it should be inserted as an addendum to Section 5 of Volume I.

We consider the Phase I audit to be complete as of this document's issue.

Very truly yours,

Edward E. Noble

Edward E. Noble
Project Manager
Diamond Shamrock Corporation

EEN:slr
Enclosure
cc: W. C. Hutton - Dallas (w/o enclosure)
M. Skaggs - Dallas (with enclosure)

INTERNATIONAL TECHNOLOGY CORPORATION

DIAMOND SHAMROCK CORPORATION

80 LISTER AVENUE

PHASE I ANALYTICAL AUDIT RESULTS

FINAL RESPONSE

Prepared for:

Diamond Shamrock Corporation
Dallas, Texas

By:

International Technology Corporation
Knoxville, Tennessee

APRIL 1987

D76X DSC

Regional Office
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1.0 INTRODUCTION

All analytical data generated by IT Corporation (IT) for Diamond Shamrock (DS) from samples collected at the 80 Lister Avenue site in Newark, NJ, underwent a formal Quality Assurance audit by NUS Corporation between March and November of 1985. At the conclusion of the audit, DS/IT was directed by the NJDEP to integrate NUS's quality assurance qualifiers into the final Site Evaluation Report. In addition, the impact, if any, of the qualifiers on the conclusions of the site assessment and feasibility study were to be addressed.

The following sections of this document present the data qualifiers as recommended by NUS, and discuss the impact of rejected data points on the study conclusions.

2.0 PRESENTATION OF NUS QUALIFIERS

Tables 1, 2 and 3 contain, in full, the audit qualifiers assigned by NUS for each analysis performed on each sample from the 80 Lister Avenue site. Attachment 1 describes the format used for the qualifier entries. Abbreviations used for specific analytes referred to in the tables are defined in Attachment 2. In general, for those analysis fractions involving more than one analyte, the "primary fraction qualifier" is that which refers to the majority of the analytes in that fraction. Exceptions are then noted as necessary.

The qualifiers themselves are defined by NUS (Byrne to Kindig, 2/10/87) as follows:

J = approximate value
R = rejected value
A (or no code letter) = acceptable - data meets all quality assurance measures of the analytical protocol.

A fourth qualifier, "UJ" is also found in the audit results, but no definition is supplied. Approximated data is treated as though it were acceptable, to assure a "worst case" treatment of site conditions.

The qualifiers presented in Tables 1, 2 and 3 were taken directly from the individual audit reports prepared by NUS. Where inconsistencies were encountered between the report text and the audit worksheets for each sample, the worksheets were considered to be the final word.

3.0 DISCUSSION OF REJECTED DATA POINTS

DS/IT has reviewed the results of the audit performed by NUS. Outlined below is a summary of our findings.

3.1 DIOXIN ANALYSIS QUALIFIERS

A total of 143 original sample dioxin (2,3,7,8-tetrachlorodibenzo-p-dioxin) results were rejected by NUS, including samples of all matrices, as listed in Table 4.

Thirty-five (35) of these results were rejected because a field blank reported in the same batch had a positive value. Due to the large number and variety of samples collected from the site, field blanks for this project were related only to samples of a similar matrix with the same collection date; they were treated as "real samples" upon arrival at the laboratory, and therefore do not have a direct quality control relationship to the samples contained in the same batch report. Twenty-seven (27) of the samples rejected on this basis, therefore, should instead have been accepted, or approximated.

Many (almost half) of the sample results that were rejected contained very high levels of dioxin, often well above the linear range. Often, a re-run using a 1 gram aliquot was still insufficient to bring the samples down to within the calibration range. Dilutions of the extracts were performed in these cases to allow quantitation; this procedure was approved by NJDEP representatives at the time the analyses were being performed. Therefore, those samples rejected for reasons related to this procedure should have been considered acceptable for the purposes of the site evaluation.

The requirement that the detection limit for the reagent blank, analyzed with each sample batch, be $\leq$ 0.1 ppb was instituted after these sample analyses wre performed. Many samples were, however, approximated or rejected based largely

on failing this criterion, because the audit took place well after the project was completed. Therefore, this is not a valid criticism of the data from this site work, and should not have led to the rejection of any sample results.

3.1.1 Drums, Tanks and Sewers/Sumps

Of the 39 drum, tank and sewer/sump samples whose results were rejected, the re-run (1 g aliquot) data for seven (7) was only approximated (J'd). These values, therefore, are usable for the site evaluation with no negative impact. All of the samples in this category were extremely difficult to analyze, due to the complex chemical matrix involved; for three (3), in fact, no data was ever obtained. Reasons for rejection include poor surrogate recoveries, mass ratios out of limits, and detection limits greater than 0.78 ppb, all of which can be traced to the matrix problem. We agree that the data do not meet all quality assurance protocols in these cases. Since the conclusion of the feasibility study is that all drums, tanks and sewers/sumps should be considered contaminated for remediation purposes (even though 180 drums were demonstrated to have non-detectable dioxin levels), these rejected data points have no impact on the site-related conclusions.

3.1.2 Concrete Chips

Twelve (12) concrete chip sample results were rejected; nine (9) of these, however, were rejected based on a positive result in an unrelated field blank, as discussed above, and should have been accepted. Two of the remaining samples were re-run, and the re-run data was approximated (J'd); these, then are also satisfactory for evaluation purposes. The last sample had a dioxin level well above the linear range, in fact saturating the instrument detection system; we agree that the criteria were not met in this case. Rejection of this single data point has no impact on the overall study conclusions.

3.1.3 Wipe, Air, Industrial Hygiene Samples

Nineteen (19) wipe, industrial hygiene (IH, filter/tube), and ambient air samples were also rejected, 2 based on unrelated field blank results which, again, should be accepted. Thirteen (13) were actually part of the IH program to monitor personnel exposures, thus having no direct impact on the site assessment and should not have been included in the audit. The 3 remaining wipes were saturated, giving poor surrogate recoveries and mass ratios outside acceptable

limits. These samples were from the warehouse and process building, both of which were determined to be contaminated based on the overall assessment results; these rejected data points do not impact that conclusion. One air sample result was rejected due to a lack of related spike/duplicate results and because the chromatograms did not improve after additional clean-up steps were taken. We feel these points warrant a J qualifier, but do not constitute sufficient reason for rejection.

3.1.4 River Sediments

Six (6) river sediment sample results were rejected. The river sediments posed another difficult matrix problem, due to the large amount of chemical discharge into the river over the years. Five of the rejected samples were analyzed as part of a single batch, with results ranging from 151 ppb to 450 ppb; all were rejected because the sample spike (at 1 ppb) and duplicate results were outside acceptance criteria. Since the assessment concluded that the river sediment was contaminated, and a more detailed investigation has since been performed, these rejected data points have no impact on the original site assessment.

3.1.5 Soils

Of the thirty-three (33) soil samples that were rejected, one (1) was based on unrelated positive field blank results and twenty-two (22) had re-run results that were approximated (J'd). All twenty-three (23) of these, therefore, should be considered satisfactory for use in the site evaluation. Three soils were analyzed as part of the same batch as the five (5) river sediments described above. Rejection was based on wide variation in spike recovery and duplicate values; since the dioxin levels of the samples used or the spike and duplicate were very high and both selected samples were sediments which exhibited severe matrix effects, poor reproducibility is not surprising. Based on surrogate recoveries, percent accuracies and the clean reagent blank, these data points are more reasonably approximated (J'd) than rejected. The remaining seven (7) rejected soils represent four distinct sampling locations, each of which has at least one other data point which was accepted or approximated. Thus, the conclusion that the soil in these areas is contaminated is not impacted by these audit results.

3.1.6 Waters

Rationale for the reliability of seven (7) rejected water samples was detailed previously in a review of the audit results specifically with regard to their impact on the feasibility study (Noble to Kindig, 2/14/86). These seven, and another eight (8) waters, were rejected based on unrelated field blank results and should be considered acceptable. Of the four (4) remaining waters that were rejected, three (3) are a field blank, trip blank and groundwater sample; these were collected as a set on the same day and rejected because the field blank gave a positive result. This sample set was also discussed previously (Noble to Kindig, 2/14/86); based on earlier and subsequent well sampling results, the positive field blank should be considered a random occurrence. The last rejected water sample was a field blank, rejected due to poor surrogate recovery results. We agree that this sample data does not meet quality assurance protocols; neither does it have any impact on the study.

3.1.7 NJDEP Proficiency Samples

Fifteen proficiency sample results were rejected by the auditors. These performance evaluation samples were provided at 3 levels: blanks, to be spiked at 1.0 ppb; low, approximately 4 ppb; and high, approximately 400-500 ppb. Seven of the blank spikes were rejected because the spike level used was 1.6 ppb; an eighth blank spike, also at 1.6 ppb, was approximated (J'd). The use of the higher level spike solution was described in the Site Evaluation Report (Section 5.12.4, p. 5-45). Since this information was provided, and NUS's handling of all the blank spike results was inconsistent, we feel that these data should be considered approximated, and, therefore, satisfactory for use.

Seven of the rejected proficiency samples were at the high concentration level. All were re-run as 1 gram aliquots, since the initial results were above the method's linear range; one of these re-runs was accepted. The remaining 6 sample results were still rejected because they were more than 3 standard deviations above the true values. Since the low level performance samples were acceptable, implying that low reported sample values are reliable, and a bias on the high side of high level samples would only encourage a more conservative assessment of the site, we feel that the rejection of these results does not significantly impact the study conclusions.

3.1.8 Summary - Dioxin Analysis Qualifiers

Of the 143 results rejected by NUS, 82 should have been considered acceptable, for the reasons described in the preceding sections. This leaves 62 results which did not meet the full quality assurance protocols, causing their rejection. This represents 11.6 percent of the 534 samples analyzed for dioxin. Many of these represented difficult matrices for analysis, and had high levels of dioxin reported. For these reasons, it is our firm position that the site assessment and feasibility study conclusions are not impacted by the audit results.

3.2 PRIORITY POLLUTANT ANALYSIS QUALIFIERS

A total of only 3 organic analysis fractions (2 BNA, 1 Pesticide/PCB) were fully rejected by the audit. In numerous cases, individual analytes within a fraction were rejected, as exceptions to the overall fractions' acceptance or approximation; these rejections were primarily due to the detection of those compounds in the associated method/reagent blanks. We agree that these results do not meet all quality assurance protocols. Since the primary contaminant of concern at the site is dioxin, and since the vast majority of priority pollutant data was not rejected, these audit results have no impact on the site assessment and feasibility conclusions.

4.0 REJECTION OF "TOTALS" DATA

Per an NJDEP directive, and as described in the Work Plan, 10 percent of the soil and sediment samples were also analyzed for 2,3,7,8-tetrachlorodibenzofuran (TCDF) and octachlorodibenzodioxin (OCDD). Although they have been referred to as "totals" data, this is only a reference to the method used for analysis of total dioxins and furans, which, obviously was used to obtain OCDD results. The TCDF and OCDD results were generated and reported strictly at NJDEP's request, and were not intended to provide information on the total dioxin content of the samples. Further, this data was not used in the site assessment or feasibility study, therefore its disposition by the auditors (acceptance, approximation or rejection) has no impact on the conclusions of those studies.

5.0 DEFICIENCIES IN NUS AUDIT REPORTS

Our review of the NUS audit reports revealed a number of inconsistencies and errors, particularly involving sample numbers. For example, Audit Report number 059 lists sample number 0250-0522-D-L as being assigned a "J" qualifier. While the batch report summary table includes this sample number, no data package is present in the batch. In fact, no data package exists: this is a drum sample that was never analyzed, but held in archive. The summary table was in error; sample number D-1-F-0545-102-S-Y, for which a data package was present in the batch, was left off and the incorrect sample number added. This would seem to imply that the data packages themselves were not reviewed, at least in this case, or else the obvious error in the table would have been detected by NUS.

There are a number of additional examples of deficiencies in the NUS audit reports that could be pointed out, however we do not believe it suits the purposes of any of the parties involved to pursue this issue at this time.

6.0 CONCLUSION

As described in this document, it is the position of Diamond Shamrock/IT Corporation that the audit results do not summarily affect the site assessment or feasibility study conclusions or recommendations.

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TABLE 1
NUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT	TCDD(Orig.)	TCDD(Re-run)	ORGANIC PRIORITY POLLUTANT FRACTIONS: VOLATILE ORGANICS (VOA)	BNA	PEST.	HERBICIDE	METALS	CN/PH
1092-0015-W-L	Wipe Field Blank	ND (0.84) ng/wipe	A							
1149-0016-W-L	Wipe-Office/Lab-Room 1149, Main Entrance	76. ng/meter2	J							
1102-0017-W-L	Wipe-Office/Lab-Rm. 1102, Accounting	38. ng/meter2	J							
1105-0018-W-L	Wipe-Office/Lab, Rm. 1105, FLOOR, Plant Mgr.	190. ng/meter2	J							
1108-0019-W-L	Wipe-Office/Lab-Rm 1108, Wall	480. ng/meter2	A							
1107-0020-W-L	Wipe-Office/Lab-Rm 1107, Floor	190. ng/meter2	J							
1106-0021-W-L	Wipe-Office/Lab-Rm. 1106,Floor-Back foyer inside door	500. ng/meter2	J							
TP02-0022-W-L	Wipe-Trip Blank	ND (4.8 ng/wipe)	A							
1204-0023-W-L	Wipe-Office/Lab-Rm 1204, Floor by back door-Lab	150. ng/meter2	J							
1204-0024-W-L	Wipe-Office/Lab-Rm 1204, Lab Hood, Lab	14,000. ng/meter2	J							
1204-0025-W-L	Wipe-Office/Lab-Rm 1204, N side of entrance, lab side	10. ng/meter2	J							
1204-0026-W-L	Wipe-Office/Lab-Rm 1204, Lab bench near back door	1000. ng/meter2	J							
1206-0027-W-L	Wipe-Office/Lab-Rm 1206, Floor-Small Lab	350. ng/meter2	J							
9309-0029-W-L	DI H20 Check (Fisher)	ND (0.093 ppb)	A							
1205-0030-W-L	Wipe-Off/Lab-Rm1205,A/C Intake Duct-Utility	1200. ng/meter2	J							
1205-0031-W-L	Wipe/Off/Lab-Rm1205,Furnace Intake-Utility Rm	88. ng/meter2	J							
1201-0032-W-L	Wipe-Off/Lab-Rm1202,Floor-Lunchroom	56. ng/meter2	J							
1202-0033-W-L	Wipe-Off/Lab, Rm1202, Radiator-Lunchroom	18. ng/meter2	J							
1116-0034-W-L	Wipe-Off/Lab-Rm 1116, Locker Room	500. ng/meter2	J							
1122-0035-W-L	Wipe-Off/Lab-Rm1122, Heater Duct-Basket Room	120. ng/meter2	J							
TP03-0036-W-L	Wipe-Field Blank	ND (0.24 ng/wipe)	A							
TP03-0037-W-L	Wipe-Trip Blank	ND (0.48 ng/wipe)	A							
9418-0045-D-L	Drum #18, CT, white & yellow crystals	12.1 ppb	E							
TP05-0048-W-L	Water: Field Blank, Chip Sampling	ND (0.06 ppb)	J							
1118-0049-C-L	Chip-Off/Lab-Rm1118,Flr under Sinkedge-Washroom	2.8 ppb	J							
1119-0050-C-L	Chip-Off/Lab Rm 1119, Floor, Slop Sink	3.7 ppb	J							
1122-0051-C-L	Chip-Off/Labrm1122,Flr undr Arch Btwn Rm1122 & 1116	25.0 ppb	J							
1122-0052-C-L	Chip-Off/Lab-Rm 1122,Flr near Drain, Basket Room	69.3 ppb	J							
1122-0053-C-L	Chip-Off/Lab-Rm1122,Flr near Backdoor-Basket Room	61.2 ppb	J							
9421-0054-D-L	Drum #21, CO, yellow crystal powders	12,200. ppb	E							
1122-0073-W-L	Wipe-Office/Lab-Rm 1122, Windowsill, Basket Rm	520. ng/meter2	J							
1122-0074-W-L	Wipe-Office/Lab-Rm 1122, Flr near inside entrance	1100. ng/meter2	J							
9448-0091-D-L	Drum #48, 2344, milky liquid	8.8 ppb	E							
1205-0095-W-L	Wipe-Off/Lab Rm1205,Heater Interior Inlet-Utility	1400. ng/meter2	J							
TP13-0096-W-L	Field Blank-Chip Sampling	ND (0.38 ppb)	J							
1545-0097-C-L	Chip-Off/Lab Extr-1545-S corner, E wall at roofsill	ND (0.68 ppb)	J							
1541-0098-C-L	Chip-Off/Lab Extr-1541-center, N wall at roofsill	ND (0.18 ppb)	J							
1546-0099-C-L	Chip-Off/Lab Extr-1546-center W wall,top 24",vertical	ND (0.34 ppb)	J							
TP14-0100-W-L	Wipe-Field Blank	24.8 ng/wipe	J							
1546-0101-W-L	Wipe-Off/Lab Extr-1546-Center of W wall at roof	ND (3.2 ng/meter2)	J							
IC09-0103-T-L	IN-glass fiber filter: Personnel sample	ND (0.41 ng/meter3)	J							
IC09-0104-T-L	IN glass fiber filter: Hi vol, clean area sample	ND (0.29 ng/meter3)	J							
IC09-0105-T-L	IN XAD2: BACK-UP TO L0104	ND (0.27 ng/meter3)	J							
TP15-0106-T-L	IN glass fiber filter: Blank	ND (0.86 ng/sample)	J							
TP06-0107-W-L	Trip Blank-Chip Sampling	ND (0.18 ppb)	J							
1545-0108-C-L	Chip-Off/Lab Extr-1545- S corner E wall, 3' to 5'	ND (0.63 ppb)	J							

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TABLE 1 (Continued)
NUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT	TCDD (Orig.)	TCDD (Re-run)	ORGANIC PRIORITY POLLUTANT FRACTIONS: VOLATILE ORGANICS (VOA)	BNA	PEST.	HERBICIDE	METALS	CN/PH
1505-0169-C-L	Chip-Off/Lab Extr-1505- S corner E wall, ground level	ND (0.25 ppb)	J							
1505-0110-C-L	Chip-Off/Lab Extr-1505-Hallway of Front Entrance	2.3 ppb	J							
1541-0111-C-L	Chip-Off/Lab Extr-1541-center of N wall, 3' to 5'	0.71 ppb	J							
1541-0112-C-L	ITAS Split of 1541-0111-C-L	0.95 ppb	J							
1541-0113-C-L	Chip-Off/Lab Extr-1541-center N wall, ground level	0.57 ppb	J							
0065-0136-D-L	Drum #65, 480, clear gold liquid	54.0 ppb	R							
A097-0144-A-K	Ambient Air: September 10,1984	25.6 ng/sample	J							
7816-0146-T-L	IN: XAD-2 tube Field Blank	ND (0.75 ng/sample)	J						A	
0075-0152-D-L	Drum #75, 157, pink thick liquid	2.6 ppb	R							
K069-0159-T-L	IN glass fiber filter-Personnel sample	ND (1.6 ng/meter3)	J							
K069-0160-T-L	IN-GFF/XAD: 37-Cl SAMPLE SPIKE	ND (1.2 ng/meter3)	J							
K069-0161-T-L	IN glass fiber filter-Hi vol,btwn tanks,Process bldg	ND (1.0 ng/meter3)	J							
K069-0162-T-L	IN-XAD: BACK-UP TO L0161	ND (0.80 ng/meter3)	J							
7816-0163-T-L	IN glass fiber filter-Blank	ND (1.1 ng/sample)	J							
7819-0164-T-L	IN XAD-Blank	ND (0.36 ng/sample)	J							
7666-0165-W-L	Trip Blank-Chip Sampling	ND (1.004 ppb)	J							
1506-0166-C-L	Chip-Off/Lab Extr-1506-center W wall, 3' to 5'	ND (0.58 ppb)	J							
1506-0167-C-L	Chip-Off/Lab Extr-1506-center W wall, ground level	2.4 ppb	J							
2189-0168-C-L	Chip-Warehse-In 2189,center of traffic area, floor	54.6 ppb	J							
2189-0169-C-L	Chip-Warehse-In 2189-Flr, tool crib cage area	48.7 ppb	J							
2189-0170-C-L	Chip-Warehse-In 2189-Floor by traffic door	121. ppb	J							
2189-0171-C-L	Chip-Warehse-In 2189-Floor by warehouse door	192. ppb	J							
F021-0173-W-L	Field Blank-Chip Sampling	ND (0.003 ppb)	J							
F021-0174-W-L	Wipe-Field Blank	ND (0.56 ng/wipe)	J							
2188-0176-W-L	Wipe-Warehouse-In 2188, Floor-Kitchen	600. ng/meter2	J							
2188-0177-W-L	Wipe-Warehouse-In 2188, Windowsill, Kitchen	130. ng/meter2	J							
2189-0178-W-L	Wipe-Warehse-In 2189-Top of Light Work Area, Shop	19,000. ng/meter2	R							
2189-0179-W-L	Wipe-Warehse-In 2189-Top of bench in Shop	3500. ng/meter2	J							
2299-0180-W-L	Wipe-Warehse-In 2299-Top of beam in Storage area	8400. ng/meter2	J							
A097-0181-A-K	Ambient Air: September 11, 1984	ND (2.4 ng/sample)	J							
A097-0182-A-K	Ambient Air: September 12, 1984	ND (1.9 ng/sample)	J						A	
0-1-0-0186-300-N-T	Passaic River Sediment-Station 0-1-0, 0-12"	3.9 ppb	R		A;HC,AC/NJ;CF,BD/J;BF/R				A	
0-2-0-0187-300-N-L	Passaic River Sediment-Station 0-2-0, 0-12"	0.96 ppb	J			A	A	J	A	
0-2-0-0188-299-N-L	Passaic River Sediment-Station 0-2-0, 12-24"	ND (0.23 ppb)	J							
0-3-0-0189-300-N-T	Passaic River Sediment-Station 0-3-0, 0-12"	1.1 ppb	J		A;HC,AC/NJ;CF,BD/J;BF/R					
0-4-0-0190-300-N-L	Passaic River Sediment-Station 0-4-0, 0-12"	0.53 ppb	J			A	A	J	A	
0-4-0-0191-299-N-L	Passaic River Sediment-Station 0-4-0, 12-24"	1.8 ppb	J							
0-5-0-0192-300-N-T	Passaic River Sediment-Station 0-5-0, 0-12"	ND (0.54 ppb)	J		A;HC,AC/NJ;CF,BD/J;BF/R					
0-5-0-0193-299-N-T	Passaic River Sediment-Station 0-5-0, 12-24"	ND (0.20 ppb)	J		A;HC,AC/NJ;CF,BD/J;BF/R	A	A	J	A	
0-6-1-0196-300-N-L	Passaic River Sediment-Station 0-6-1, 0-12"	ND (0.69 ppb)	J			A	A	J	A	
0-6-1-0197-299-N-L	Passaic River Sediment-Station 0-6-1, 12-24"	0.63 ppb	J							
0-6-2-0198-300-N-L	Passaic River Sediment: Station 0-6-2, 0-12"	1.2 ppb	J							
0-6-2-0199-299-N-L	Passaic River Sediment: Station 0-6-2, 12-24"	ND (0.16 ppb)	J							
0-8-2-0200-300-N-T	Passaic River Sediment: Station 0-8-2, 0-12"	ND (0.22 ppb)	J		A					
0-8-2-0201-299-N-T	Passaic River Sediment: Station 0-8-2, 12-24"	ND (0.43 ppb)	J		A	A	A	A;2408,Dinoseb/J	A;Se/J	
0-8-1-0202-300-N-T	Passaic River Sediment: Station 0-8-1, 0-12"	ND (0.32 ppb)	J		A	A	A	A;2408,Dinoseb/J	A;Se/J	
						A	A	A;2408;Dinoseb/J	A	

TABLE 1 (Continued)
NUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT	TCDD (Orig.)	TCDD (Re-run)	ORGANIC PRIORITY POLLUTANT FRACTIONS					
					VOLATILE ORGANICS (VOA)	BNA	PEST.	HERBICIDE	METALS	CN/PH
1-B-1-0293-299-N-T	Passaic River Sediment: Station B-B-1, 12-24"	1.3 ppb	J		A;MC/UJ					
1-B-B-0294-300-N-T	Passaic River Sediment: Station B-B-B, 0-12"	0.6 ppb	J		A;MC/UJ	A	A	A;2,4DB,Dinoseb/J	A	
1-B-B-0295-299-N-T	Passaic River Sediment: Station B-B-B, 12-24"	10.4 ppb	J		A;MC/UJ	A	A	A;2,4DB,Dinoseb/J	A;Se/J	
1-7-1-0296-300-N-L	Passaic River Sediment: Station B-7-B, 0-12"	1.8 ppb	J			A	A	A;2,4DB,Dinoseb/J	A;Se/J	
2103-0217-W-L	Wipe-Warehouse-In 2103-Floor, Foreman Office	1810. ng/meter2	J							
2104-0218-W-L	Wipe-Warehouse-In 2104-Top of Flourescent	8120. ng/meter2	J							
K099-0240-T-L	IN glass fiber filter-Personnel sample	ND (0.34 ng/meter3)	J							
7824-0242-T-L	IN glass fiber filter-Field Blank	ND (1.1 ng/sample)	J							
0119-0255-D-L	Drum #119, CL, dark brown liquid	13.9 ppb	R							
K099-0273-T-L	IN glass fiber filter-Personnel sample	ND (0.10 ng/meter3)	J							
K099-0274-T-L	IN Personnel Sample: Drum Sampler Assistant	ND (0.55 ng/meter3)	J							
K099-0275-T-L	IN Personnel Sample: Driller (glass fiber filter)	ND (0.14 ng/meter3)	J							
K099-0276-T-L	IN Glass fiber filter: Betwn tanks & Process Bldg	ND (0.16 ng/meter3)	J							
S091-0277-C-L	Chip-Stack Flue, Soot at Furnace Entrance	10.5 ppb	J							
S092-0278-C-L	Chip-Stack, Soot from base of inside drop-out chamber	9.2 ppb	J							
S093-0279-C-L	Chip-Stack Entr- at base, 0-24" vertical	1.2 ppb	J							
6548-0280-B-L	Bulk-Solvent Shed Entr-insulating panel	0.17 ppb	J							
K099-0283-T-L	IN-XAD: BACK-UP TO L0276	ND (0.37 ng/meter3)	J							
7826-0284-T-L	IN Glass Fiber Filter-Field Blank	ND (0.11 ng/sample)	J							
7827-0285-T-L	IN XAD: Field Blank	ND (1.1 ng/sample)	J							
1-9-B-0299-300-N-T	Passaic River Sediment: Station B-9-B, 0-12"	10.8 ppb	J		A;MC/UJ;BF/R					
1-B-B-0300-300-N-T	Passaic River Sediment: Station 1-B-B, 0-12"	2.3 ppb	J		A;MC/UJ	A	A	A;2,4DB,Dinoseb/J	A;Se/J	
1-1-B-0301-300-N-L	Passaic River Sediment: Station 1-1-B, 0-12"	0.87 ppb	J			A	A	A;2,4DB,Dinoseb/J	A;Se/J	
1-1-B-0302-299-N-L	Passaic River Sediment: Station 1-1-B, 12-24"	45.6 ppb	J							
1-1-1-0303-300-N-L	Passaic River Sediment-Station 1-1-1, 0-12"	ND (0.27 ppb)	J							
1-1-1-0304-299-N-L	Passaic River Sediment-Station 1-1-1, 12-24"	1.5 ppb	J							
1-1-2-0305-300-N-L	Passaic River Sediment-Station 1-1-2, 0-12"	3.5 ppb	J							
1-1-2-0306-299-N-L	Passaic River Sediment-Station 1-1-2, 12-24"	10.3 ppb	J							
1-2-B-0307-300-N-L	Passaic River Sediment-Station 1-2-B, 0-12"	1.7 ppb	J							
1-3-B-0308-300-N-T	Passaic River Sediment: Station 1-3-B, 0-12"	1.3 ppb	J		A;MC/UJ,BF/R					
1-3-B-0309-299-N-T	Passaic River Sediment: Station 1-3-B, 12-24"	130. ppb	J		A;MC/UJ	A	A	A;2,4DB,Dinoseb/J	A	
1-4-B-0310-300-N-L	Passaic River Sediment-Station 1-4-B, 0-12"	0.97 ppb	J			A	A	A;2,4DB,Dinoseb/J	A	
1-5-B-0311-300-N-T	Passaic River Sediment: Station 1-5-B, 0-12"	0.94 ppb	J		A;MC/UJ					
1-6-B-0312-300-N-L	Passaic River Sediment-Station 1-6-B, 0-12"	2.0 ppb	J			A	A	A;2,4DB,Dinoseb/J	A	
1-7-B-0313-300-N-L	Passaic River Sediment-Station 1-7-B, 0-12"	1.1 ppb	J							
2109-0315-W-L	Wipe-Warehouse, West Roof	13. ng/meter2	A							
2546-0316-C-L	Chip West Wall at Ground Level	ND (0.57 ppb)	J							
2501-0317-C-L	Chip-Warehose N. Wall at Ground Level	4.4 ppb	J							
2504-0318-C-L	Chip-Warehouse E. Wall at Ground Level	3.1 ppb	J							
2502-0319-C-L	Chip-Warehose S. Wall at Ground Level	10. ppb	J							
7829-0320-W-L	Field Blank Wipe	ND (0.42 ng/wipe)	A							
0162-0346-D-L	Drum #162, CL, golden liquid	1.5 ppb	R							
1-6-B-0351-300-N-L	Passaic River Sediment-Station B-6-B, 0-12"	ND (0.72 ppb)	J							
1-6-B-0352-299-N-L	Passaic River Sediment-Station B-6-B, 12-24"	3.2 ppb	J							
A-J-C-0353-180-S-T	Soil: Station A-J-C, Borehole #6, 0-6"	19.7 ppb	J		A;BD,CF,AC/UJ	A;PT/J	J	J	A;Hg/J	
A-J-C-0354-181-S-L	Soil: Station A-J-C, Borehole #6, 6-12"	18.8 ppb	J							

TABLE 1 (Continued)
NUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT	TCDD (Orig)	TCDD(Re-run)	ORGANIC PRIORITY POLLUTANT FRACTIONS					
					VOLATILE ORGANICS (VOA)	BNA	PEST.	HERBICIDE	METALS	CN/PH
A-3-C-4355-102-S-T	Soil: Station A-3-C, Borehole #6, 12-24"	7.4 ppb	J		A;CF,BF/U					
A-3-C-4362-109-S-T	Soil: Station A-3-C, Borehole #6, 6.5-8.5'	ND (0.02 ppb)	J		A;MC,CF,BD/U	A;PT/J	J	J	A;Pb/J	
4176-4364-D-L	Drum #176, 21T, thick white paste	35.9 ppb	R			A;PT/J	J	J	A;Pb/J	
4183-4371-D-L	Drum #183, 00, pink & red liquid	16.8 ppb	R							
1206-4381-W-L	Office/Lab Rm1206-Wipe-Bench-Small Lab	150. ng/meter2	A							
K091-4382-T-L	Glass Fiber Filter: Personnel	ND (0.32 ng/meter3)	J							
K089-4383-T-L	Glass Fiber Filter Personnel	ND (0.91 ng/meter3)	J							
K090-4384-T-L	Glass Fiber Filter Personnel	ND (0.99 ng/meter3)	J							
6189-4388-C-L	Chip-Solvent Shed Interior Floor	9.0 ppb	J							
2546-4389-C-L	Chip-Warehouse West Wall @64" (3-5')	ND (0.77 ppb)	R							
2506-4390-C-L	Chip-Warehouse West Wall @ Roof Line	ND (0.28 ppb)	J							
2541-4391-C-L	Chip-Warehouse North Wall @ 64" (3-5')	1.6 ppb	J							
2541-4392-C-L	Chip-Warehouse Inter-North side at Roof	1.9 ppb	A							
2542-4393-C-L	Chip-Warehouse South Wall @ 64" (3-5')	13.3 ppb	J							
4174-4443-D-L	Drum #174, 21T, thick white paste	7.5 ppb	R							
FB33-4449-T-L	Glass Fiber Filter Field Blank	ND (0.45 ng/sample)	J							
A067-4414-A-R	Ambient Air: September 17, 1984	ND (0.7 ng/sample)	J							
A-3-C-4417-201-S-L	Soil: Station A-3-C, Borehole #6, 11-13', silt	ND (0.3 ppb)	J							
4501-4421-C-L	Chip-Process Bldg Inter-North Wall, 0-24"	45. ppb	A						A	
4506-4425-C-L	Chip-Process Bldg Inter-Bin Wall, W side, 0-24"	2.7 ppb	A							
4546-4426-C-L	Chip-Process Bldg Inter-Bin Wall,W side, 36-68"	3.9 ppb	A							
4503-4427-C-L	Chip-Proc Bldg, Intr S-at C filter,24" over curb	67.9 ppb	A							
4541-4428-C-L	Chip-Process Bldg-IN BIN-North, 0-24"	37.0 ppb	A							
A-2-K-4434-106-S-T	Soil-Station A-2-K, Borehole #5, 0-6"	56.3 ppb	J		A;MC/2					
A-2-K-4435-101-S-L	Soil: Station A-2-K, Borehole #5, 6-12"	36.0 ppb	J			A	A	A;24DB/3;Dinoseb/2	A;Pb/J	
A-2-K-4436-102-S-T	Soil-Station A-2-K, Borehole #5, 12-24"	72.5 ppb	J		A;MC/2					
A-2-K-4443-109-S-T	Soil-Station A-2-K, Borehole #5, 6.5-8.5'	0.36 ppb	J		A;MC/2	A	A;DT/J	A	A;Pb/J	
K089-4444-T-L	IN glass fiber filter--Area Decon	ND (0.16 ng/meter3)	A			A	A;DT/J	A	A;Pb/J	
K594-4445-T-L	IN-XAD: BACK-UP TO L4444	ND (0.55 ng/meter3)	J							
K088-4446-T-L	IN glass fiber filter--Personnel	0.74 ng/meter3	A							
F836-4449-T-L	IN glass fiber filter-Field Blank	ND (0.45 ng/sample)	A							
F837-4450-T-L	IN XAD2--Field Blank	ND (0.32 ng/sample)	J							
4502-4451-C-L	Chip-Proc Bldg-S wall-near roof at vert stairs	76.8 ppb	J							
4504-4452-C-L	Chip-Proc Bldg-E wall,over trench near vessels(0-24")	1580. ppb	R	J						
4504-4453-B-L	Bulk-Proc Bldg-E wall, near vessels (36-68")	95.4 ppb	J							
4504-4454-B-L	Bulk-Proc Bldg-E wall, at roof near vessels	78.3 ppb	J							
4501-4455-B-L	Bulk-Proc Bldg-N wall, 36-68"	128. ppb	J							
4503-4456-B-L	Bulk-Proc Bldg-S wall, 36-68"	8.1 ppb	J							
K089-4479-T-L	IN glass fiber filter--Personnel	ND (0.31 ng/meter3)	J							
K094-4481-T-L	IN glass fiber filter--Field Blank	ND (1.0 ng/sample)	J							
4501-4483-B-L	Bulk-Proc Bldg-N wall, 24" fr top (off louvers)	3.0 ppb	J							
F841-4494-W-L	Wipe-Field Blank	ND (0.69 ng/wipe)	J							
4489-4495-W-L	Wipe-Proc Bldg-Roof, Northeast quadrant	6.4 ng/meter2	J							
4489-4496-W-L	Wipe-Proc Bldg-Roof, Southwest corner	12. ng/meter2	J							
7230-4512-D-L	Drum #230, 88, clear liquid & white solids	3.4 ppb	R							
7251-4523-D-L	Drum #251, 28, brown sludge & water	476. ppb	R							

TABLE 1 (Continued)
NUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT	TCDD (Orig.)	TCDD(Re-run)	ORGANIC PRIORITY POLLUTANT FRACTIONS					
					VOLATILE ORGANICS (VOA)	BNA	PEST.	HERBICIDE	METALS	CN/PH
2544-0527-C-L	Chip-Warehouse Exter-E wall, 3'-5'	1.4 ppb	J							
2544-0528-C-L	Chip-Warehouse Exter-E wall, at roof line	1.8 ppb	J							
2542-0529-C-L	Chip-Warehouse Exter-S wall, at roof line	16.5 ppb	J							
A-2-E-0531-291-S-L	Soil: Station A-2-E, Borehole #5, 12.7-14.7', silt	ND (0.07 ppb)	J							
K049-0540-T-L	IR glass fiber filter--Personnel, Chip Sampler	1.2 ng/meter3	J							
K044-0541-T-L	IR glass fiber filter-Personnel, Driller	ND (0.26 ng/meter3)	J							
F043-0542-T-L	IR glass fiber filter-Field Blank	ND (0.61 ng/sample)	J							
D-1-F-0543-189-S-T	Soil: Station D-1-F, Borehole #7, 0-6"	61.6 ppb	J		A					
D-1-F-0544-181-S-L	Soil: Station D-1-F, Borehole #7, 6"-12"	7.5 ppb	J			A	A	A	A;Hg/1	
D-1-F-0545-182-S-T	Soil: Station D-1-F, Borehole #7, 12"-24"	4.7 ppb	J		A;AC/I					
D-1-F-0552-189-S-T	Soil: Station D-1-F, Borehole #7, 6.5'-8.7'	8.78 ppb	J		A;HC,AC/I	A	A	A	A;Hg/1	
4189-0553-C-L	Chip-Process Bldg-Floor, W end of first floor	696. ppb	J	J		A	A	A	A;Hg/1	
4194-0554-C-L	Chip-Process Bldg-Floor at loading door, first floor	445. ppb	J	J						
4189-0555-C-L	Chip-Proc Bldg-Floor, E end under vessel, 1st floor	43.2 ppb	J							
4189-0556-W-L	Wipe-Proc Bldg-E end,near vessel-top of light,1st flr	1970. ng/meter2	J							
4190-0557-W-L	Wipe-Proc Bldg-E end,low on column,nr vessel, 1st flr	4640. ng/meter2	J							
4194-0558-W-L	Wipe-Proc Bldg-center 1st flr, top of light,nr vessel	1200. ng/meter2	J							
4189-0559-W-L	Wipe-Proc Bldg-center 1st flr,low on column,nr vessel	29,200. ng/meter2	J							
4194-0560-W-L	Wipe-Proc Bldg-W end 1st flr, top of light,nr vessel	41,600. ng/meter2	J							
4189-0561-W-L	Wipe-Proc Bldg-W end, 1st flr,low on column,nr vessel	9670. ng/meter2	J							
F044-0562-W-L	Wipe-Field Blank	ND (0.47 ng/wipe)	J							
A007-0597-A-E	Ambient Air: September 19, 1984	ND (2.5 ng/sample)	J							
K049-0599-T-L	IR-GFF/XAD: 37-Cl BLANK SPIKE	ND (0.98 ng/sample)	J							
D-1-F-0601-291-S-L	Soil: Station D-1-F, Borehole #7, 10.7'-12.7', silt	ND (0.06 ppb)	J						A	
4200-0648-W-L	Wipe-Proc Bldg-2nd Flr, W end Interior wall	1200. ng/meter2	J							
4200-0649-W-L	Wipe-Proc Bldg-2nd Flr, Acid Rx Wall (Interior)	300. ng/meter2	J							
4200-0610-W-L	Wipe-Proc Bldg-2nd Flr, E end Interior wall	270 ng/meter2	J							
4200-0611-W-L	Wipe-Proc Bldg-3rd Flr, E end Interior wall	3180. ng/meter2	J							
4200-0612-W-L	Wipe-Proc Bldg-3rd Flr, Surface-Center	170. ng/meter2	J							
4200-0613-W-L	Wipe-Proc Bldg-3rd Flr, Surface-East End	60. ng/meter2	J							
F046-0614-W-L	Wipe--Field Blank	ND (1.2 ng/wipe)	J							
6649-0617-C-L	Chip-Well House-Exterior, 0-24"	5.3 ppb	J							
6209-0618-C-L	Chip-Well House-Interior, floor	50.0 ppb	J							
3194-0619-C-L	Chip-Mftg Bldg-Old Area,roof slab,S of cntr vessel	1.1 ppb	J							
3189-0620-C-L	Chip-Mftg Bldg-Old Area,roof slab,W of north vessel	12.3 ppb	J							
3194-0621-C-L	Chip-Mftg Bldg-BULK DEBRIS from Drain Area	1200. ppb	J							
3189-0622-C-L	Chip-Mftg Bldg-Old Area,1st flr-flr in N end, N room	91.8 ppb	J	J						
3194-0633-C-L	Chip-Mftg Bldg-Old Area, Floor--Center	447. ppb	J							
3189-0634-C-L	Chip-Mftg Bldg-Old Area, Floor--South	562. ppb	J	J						
3188-0635-C-L	Chip-Mftg Bldg-Packing Area, floor at man door	210. ppb	J							
3189-0636-C-L	Chip-Mftg Bldg-Packing Area, floor at packing chute	191. ppb	J							
3194-0639-C-L	Chip-Mftg Bldg-Packing Area, low on East wall	6.8 ppb	J							
3189-0640-C-L	Chip-Mftg Bldg-Packing Area, 36-60" on West wall	18.1 ppb	J							
3188-0641-C-L	Chip-Mftg Bldg-New Addition, SW wall, interior	62.1 ppb	J							
C-7-C-0642-184-S-T	Soil: Station C-7-C, Borehole #4, 0-6"	130. ppb	J	R	A;HC,AC/U					
C-7-C-0643-181-S-L	Soil: Station C-7-C, Borehole #4, 6"-12"	784. ppb	J	J		J	A	J	A;Hg/1	

TABLE 1 (Continued)
NUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT	TCDD (Orig.)	TCDD (Re-run)	ORGANIC PRIORITY POLLUTANT FRACTIONS: VOLATILE ORGANICS (VOA)	BNA	PEST.	HERBICIDE	METALS	CN/PH
C-7-C-0644-102-S-T	Soil: Station C-7-C, Borehole #4, 12'-24'	247. ppb	J		A:MC,AC/UJ					
3199-0653-C-L	Chip-Mfg Bldg-1st Flr, SW flr under vease)	5.1 ppb	J			J	A	J	A:Hg/J	
3199-0653-C-L	Chip-Mfg Bldg-1st Flr,New Add'n, center flr by pump	22.5 ppb	J							
3299-0654-C-L	Chip-Mfg Bldg-2nd Flr,New Add'n, N wall by door	896. ppb	J	J						
3299-0655-W-L	Wipe-Mfg Bldg-2nd Flr,New Add'n, Floor-South end	7000. ng/meter2	J							
3299-0656-W-L	Wipe-Mfg Bldg-2nd Flr,New Add'n, Panel-Center	1190. ng/meter2	J							
3299-0657-W-L	Wipe-Mfg Bldg-2nd Flr,New Add'n, North end-Beam	630. ng/meter2	J							
3199-0658-W-L	Wipe-Mfg Bldg-1st Flr, Packing Area-Lifter	233. ng/meter2	J							
FB48-0659-W-L	Wipe-Field Blank	2.7 ng/wipe	J							
0305-0678-D-L	Drum #305, Pit, clear liquid	ND (1.7 ppb)	R							
0314-0679-D-L	Drum #314, SK, dark brown crystals	ND (6.7 ppb)	R							
3501-0690-C-L	Chip-Mfg Bldg Inter-North wall, 0-24", by man door	293. ppb	R							
3501-0691-C-L	Chip-Mfg Bldg Inter-North wall,36-60",by man door	167. ppb	R							
3506-0692-C-L	Chip-Mfg Bldg Inter-West wall, 0-6",by lg N doorway	59.8 ppb	R							
3506-0693-C-L	Chip-Mfg Bldg Inter-W wall,36-60",by lg N doorway	12.2 ppb	R							
3506-0694-C-L	Chip-Mfg Bldg Inter-W wall, 0-6",by S stairway	3.1 ppb	R							
3506-0695-C-L	Chip-Mfg Bldg Inter-W wall,36-60",by S stairway	8.93 ppb	R							
3502-0696-C-L	Chip-Mfg Bldg Inter-South, under Load-out door	200. ppb	R							
3502-0697-C-L	Chip-Mfg Bldg Inter-S wall,0-6",package area door	6.9 ppb	R							
3502-0698-C-L	Chip-Mfg Bldg Inter-S wall,36-60",package area door	26.6 ppb	R							
C-C-0701-201-S-L	Soil: Station C-7-C, Borehole #4, 18'-12', silt	2.1 ppb	R	R						
C-C-0702-202-S-G	Soil fr Shelby Tube Archive: B#4, C-7-C, 12-14'	1.2 ppb	J							
C-C-0711-109-S-T	Soil: Station C-7-C, Borehole #4, 6.5'-8'	71.8 ppb	J	R	J					
A097-0711-A-A	Ambient Air: September 21, 1984	ND (1.0 ng/sample)	R			J	J	A	A:Hg/J	
A097-0714-A-A	Ambient Air: September 24, 1984	75.8 ng/sample	J						A	
FB51-0715-W-L	Wipe-Field Blank	ND (6.5 ng/wipe)	R						A	
3502-0716-W-L	Wipe-Mfg Bldg-South Exterior Door	ND (77.5 ng/meter2)	R							
F-7-B-0751-106-S-T	Soil: Station F-7-B, Borehole #8, 0-6"	2560. ppb	R	J	J:MC/UJ					
F-7-B-0752-101-S-L	Soil: Station F-7-B, Borehole #8, 6"-12"	109. ppb	J			J	A	A	A:Hg/J	
F-7-B-0753-102-S-T	Soil: Station F-7-B, Borehole #8, 12'-24'	687. ppb	R	J	A:MC,AC,BT/UJ					
F-7-B-0760-109-S-T	Soil: Station F-7-B, Borehole #8, 6.5'-8'	2.4 ppb	J		J:MC,TL/UJ	J	A	A	A:Hg/J	
F-7-B-0764-201-S-L	Soil: Station F-7-B, Borehole #8, 18'-12', silt	4.49 ppb	J			J	A	A	A:Hg/J	
9104-0681-W-L	Wipe-Decon Line, Split Spoon after Decon	41.3 ng/wipe	J							
9106-0682-W-L	Water-Decon Line, Personnel Washwater Rinse	0.85 ppb	J							
9104-0683-W-L	Water-Decon Line, Drum Sampling Thief, final rinse	ND (0.02 ppb)	R							
K309-0806-T-L	IN-glass fiber filter- Personnel, Driller	ND (0.49 ng/meter3)	J							
K309-0807-T-L	IN glass fiber filter: Personnel, Final Sampling	ND (0.74 ng/meter3)	J							
K309-0808-T-L	IN XAD: BACK-UP TO L0807	ND (0.55 ng/meter3)	J							
FT54-0809-T-L	IN-glass fiber filter: Field Blank	ND (0.51 ng/sample)	J							
K309-0810-T-L	IN-XAD: Field Blank	ND (0.68 ng/sample)	J							
0388-0816-D-L	Drum #388, IBW, clear liquid (rusty)	ND (3.4 ppb)	R							
0392-0821-D-L	Drum #392, JJ, golden liquid	ND (2.0 ppb)	R							
A097-0843-A-A	Ambient Air: September 25, 1984	ND (2.1 ng/sample)	J							
1-2-L-0848-108-S-T	Soil: Station 1-2-L, Borehole #1, 0-6"	2790. ppb	R	J	J:MC/R					
1-2-L-0849-101-S-L	Soil: Station 1-2-L, Borehole #1, 6-12"	218. ppb	J			J	J	J	A	
1-2-L-0850-102-S-T	Soil: Station 1-2-L, Borehole #1, 12-24"	93.6 ppb	J		J:MC/R				A:Hg/J	
						J	J	J	A:Hg/J	

TABLE 1 (continued)
KUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT	TCDD (Orig.)	TCDD (Re-run)	ORGANIC PRIORITY POLLUTANT FRACTIONS: VOLATILE ORGANICS (VOA)	BNA	PEST.	HERBICIDE	METALS	CN/PH
I-2-L-0857-189-S-T	Soil: Station I-2-L, Borehole #1, 13.5'-15.5'	12.1 ppb	J		J;MC/R	J	J	J	A;Hg/J	
I-5-A-0860-180-S-T	Soil: Station I-5-A, Borehole #2, 0-6"	523. ppb	J	J	J;MC/R	J	A	A	A;Hg/J	
I-5-A-0861-181-S-L	Soil: Station I-5-A, Borehole #2, 6-12"	883. ppb	J	J		J	A	A	A;Hg/J	
I-5-A-0862-182-S-T	Soil: Station I-5-A, Borehole #2, 12-24"	830. ppb	J	R	J;MC/R					
I-5-A-0869-189-S-T	Soil: Station I-5-A, Borehole #2, 13.5-15.2'	29.9 ppb	J		J	J	A	A	A;Hg/J	
8438-8925-D-L	Drum #438, KY, white solids	12. ppb	R			J	A	A	A;Hg/J	
8451-8937-D-L	Drum #451, DO, white powder	ND (16.2 ppb)	R							
8456-8948-D-L	Drum #456, S, brown liquid	174. ppb	R							
K001-8966-T-L	IN: Glass Fiber Filter Area	ND (1.81 ng/meter3)	J							
K569-8967-T-L	IN: XAD2, Area Sample	ND (0.27 ng/meter3)	J							
F058-8968-T-L	IN: Glass Fiber Filter Field Blank	ND (1.5 ng/sample)	J							
F059-8969-T-L	IN: XAD2 Field Blank	ND (0.55 ng/sample)	J							
8492-1015-D-L	Drum #492, PP, dark liquid w/solids	ND (8.4 ppb)	R							
I-7-K-1038-184-S-T	Soil: Station I-7-K, Borehole #3, 0-6"	258. ppb	R	J	A;AC/J,MC/UJ					
I-7-K-1039-185-S-L	Soil: Station I-7-K, Borehole #3, 6-12"	3518. ppb	R	J		See *	A	A	A;Hg/J	
I-7-K-1040-186-S-T	Soil: Station I-7-K, Borehole #3, 12-24"	59.3 ppb	J		A;AC/J,MC/UJ					
I-7-K-1047-189-S-T	Soil: Station I-7-K, Borehole #3, 7-8.5'	5.8 ppb	R		A;MC/UJ,AC/J	A	A	A	A;Hg/J	
I-7-K-1048-190-S-T	ITAS Split of I-7-K-1038-184-S-T	1033. ppb	R	J	A;MC/UJ,AC/J	A	A	A	A;Hg/J	
I-7-K-1049-191-S-L	ITAS Split of I-7-K-1039-185-S-L	824. ppb	J	J		A	A	A	A;Hg/J	
A007-1084-A-K	Ambient Air: October 3, 1984	ND (1.9 ng/sample)	J							
K004-1085-T-L	IN: Glass Fiber Filter,Personnel-Drum Crew	ND (2.82 ng/meter3)	J						A	
K004-1086-T-L	IN: Glass Fiber Filter, Personnel-Tank Crew	ND (0.33 ng/meter3)	J							
K004-1087-T-L	IN: Glass Fiber Filter, Personnel-Drillers	ND (2.9 ng/meter3)	J							
F062-1088-T-L	IN: Glass Fiber Filter-Field Blank	ND (0.4 ng/sample)	J							
K004-1089-T-L	IN: Glass Fiber Filter Area	ND (0.28 ng/meter3)	J							
K569-1090-T-L	IN: XAD2, Area Sample	ND (0.97 ng/meter3)	J							
F063-1091-T-L	IN: XAD2, Field Blank	ND (2.7 ng/sample)	J							
I-7-K-1119-209-S-G	Soil fr Shelby Tube Archive: B/3, I-7-K, 8.5-10.5'	2.1 ppb	J							
I-7-K-1120-201-S-L	Soil: Station I-7-K, Borehole #3, 13.5-15.2' silt	2.8 ppb	J							
8554-1136-D-L	Drum #554, Pit 3, clear liquid	ND (2.8 ppb)	R							
8558-1141-D-L	Drum #558, Pit 3, dark sludge w/water	8750. ppb	R							
F066-1163-W-L	Wipe: Field Blank	5.5 ng/wipe	J							
7841-1192-K-L	Tank #1	No Recovery	X	R						
7837-1206-K-L	Tank #37	No Recovery	X	R						
K004-1209-T-L	IN: Glass Fiber Filter, Personnel-Drums	ND (0.29 ng/meter3)	J							
K004-1210-T-L	IN: Glass Fiber Filter, Personnel-Tanks	ND (2.4 ng/meter3)	J							
F068-1211-T-L	IN: Glass Fiber Filter, Field Blank	ND (0.85 ng/sample)	J							
H004-1213-W-L	IN Wipe: Mat btwn of decon were prsnl untape	52.2 ng/wipe	R							
H004-1214-W-L	IN Wipe:Stblz Cloth in Decon btwn brk area & D Trlr	ND (16.4 ng/meter2)	R							
H004-1215-W-L	IN Water: Final Rinse Tub in Decon Line	0.02 ppb	R							
H004-1216-W-L	IN Wipe: Stblz Cloth in frnt of Supl Trlr Steps	ND (26.8 ng/meter2)	R							
F069-1217-W-L	Wipe: Field Blank Wipe-Tank	88.7 ng/wipe	R							
8001-1231-I-L	Susp: Mftg Bldg-1st flr-W Wall nxt to rollup door	2590. ppb	R							
8002-1232-I-L	Susp: Mftg Bldg-1st flr-W side-N of rollup door	1011. ppb	J	J						
8003-1233-I-L	Susp: Mftg Bldg-1st flr-SE Side-flr Sup-N Sldg Drs	185. ppb	J							
8004-1234-I-L	Susp: Outside Process Bldg-I Wall-Floor Susp	258. ppb	J	J						

* Acid surrogate recoveries low due to matrix: positive results/J, non-positives/R.

TABLE 1 (Continued)
NUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT	TCDD (Orig.)	TCDD (Re-run)	ORGANIC PRIORITY POLLUTANT FRACTIONS: VOLATILE ORGANICS (VOA)	BNA	PEST.	HERBICIDE	METALS	CN/PH
F078-1235-N-L	Water: Field Blank-Sewer/Sump	ND (0.0054 ppb)	R							
A087-1241-A-R	Ambient Air: October 4, 1984	ND (4.3 ng/sample)	J							
I-2-L-1244-298-S-G	Soil fr Shelby Tube Archive: B/1, I-2-L, 15-17'	ND (0.27 ppb)	J							
I-2-L-1245-291-S-L	Soil: Station I-2-L, Borehole #1, 17'-19', silt	2.2 ppb	J						A	
8005-1254-2-L	Sump: Otsd Wall of Process Bldg-30' W of Tank 2099	2680. ppb	R	J						
8006-1255-2-L	Sump: Otsd NW Crnr Process Bldg-5' E of Bch Survy	9160. ppb	R							
8007-1256-2-L	Sewer: 12' S of SW Crnr of Mftg Bldg	19.5 ppb	J							
7057-1258-N-L	Tank: Tank #57	5.0 ppb	R							
7063-1264-N-L	Tank #63	190. ppb	X	J						
X064-1267-T-L	LN: Glass Fiber Filter, Personnel-Tank	ND (0.49 ng/meter3)	J							
F172-1269-T-L	LN: Glass Fiber Filer, Field Blank	ND (0.93 ng/sample)	J							
8008-1284-2-L	Sump: 15' NW of SW crnr of Mftg Bldg	560. ppb	R	J						
8009-1285-2-L	Sump: 60' N of outside SW crnr of Mftg Bldg	836. ppb	R	J						
8011-1286-2-L	Sewer: 25' N & 15' W of SW otsd wll at Mftg Bldg	4840. ppb	R	J						
8011-1287-2-L	Sewer: Directly 20'S of Tank #23 nr Warehouse	420. ppb	R	J						
8012-1323-2-L	Sewer: 50' NE of Office Lab	529. ppb	R	J						
A-2-C-1333-100-S-T	Soil: Station A-2-C, 0-6", Near Surface Soil	226. ppb	R		A;HC/UJ					
A-2-C-1334-101-S-L	Soil: Station A-2-C, 6-12", Near Surface Soil	230. ppb	R	J		J	A	A	A;Zn/J	
A-2-C-1335-102-S-T	Soil: Station A-2-C, 12-24",Near Surface Soil	214. ppb	J		A;HC/UJ					
A-2-C-1339-100-S-T	ITAS Split of A-2-C-1333-100-S-T	462. ppb	J	J	A;HC/UJ	J	A	A	A;Zn/J	
B-2-N-1344-100-S-T	Soil: Station B-2-N, 0-6", Near Surface Soil	143. ppb	J		J;HC/R	J	A;DT/J	A;24D/J,Dinoseb/R	A;Zn/J	
B-2-N-1345-101-S-L	Soil: Station B-2-N, 6-12", Near Surface Soil	11.1 ppb	J			J	A	A	A;Sb,Hg/J	
B-2-N-1346-102-S-T	Soil: Station B-2-N, 12-24", Near Surface Soil	2.8 ppb	J		J;HC/R					
A-3-C-1354-298-N-T	Water: Station A-3-C, Well #6	0.012 ppb	R		J;HC/R	J	A	A	A;Sb,Hg/J	
A-2-E-1355-298-N-T	Water: Station A-2-E, Well #5	XD (0.008 ppb)	R		J;HC/R	A	A	A	A;As/J	L/T
D-1-F-1356-298-N-T	Water: Station D-1-F, Well #7	0.016 ppb	R		J;HC/R	A	A	A	A	
C-7-C-1357-298-N-T	Water: Station C-7-C, Well #4	0.29 ppb	R		J	A	A	A	A;As/J	L/T
F-7-B-1358-298-N-T	Water: Station F-7-B, Well #8	0.72 ppb	R	J	J	A	A	A	A;As/J	
I-2-L-1359-298-N-T	Water: Station I-2-L, Well #1	0.68 ppb	R		J;HC/R	A	A	A	A;As/J	
I-7-X-1360-298-N-T	Water: Station I-7-X, Well #3	BROKEN-NO DATA	X		J;HC/UJ	A	A	A	A;As/J	
I-5-A-1361-298-N-T	Water: Station I-5-A, Well #2	7.9 ppb	R		J;HC/R	A	A	A	A;As/J	
F078-1362-N-T	Water: Field Blank Wells	BROKEN-NO DATA	X		J;HC/UJ	A	A	A	A;As/J	
T032-1363-N-T	Water: Trip Blank, Wells	ND (0.005 ppb)	R		J;HC/R	A	A	A	A;As/J	
I-2-L-1371-298-N-T	ITAS Split of I-2-L-1359-298-N-T	0.10 ppb	R		J;HC/R	A	A	A	A;As/J	
P-7-1-1378-298-N-T	Water: Station P-7-1, Passaic River	ND (0.004 ppb)	R		A;HC/UJ	A	A	A	A;As/J	L/T
N-1-N-1388-100-S-T	Soil: Station N-1-N, 0-6", Near Surface Soil	58.6 ppb	J		J;HC/R	J;DCB/UJ	A	A	A;As/J	L/T
N-1-N-1389-101-S-L	Soil: Station N-1-N, 6-12", Near Surface Soil	34.9 ppb	J			J	A	A	A;Sb,Hg/J	
N-1-N-1390-102-S-T	Soil: Station N-1-N, 12-24", Near Surface Soil	22.2 ppb	J		J;HC/R					
N-5-F-1394-100-S-T	Soil: Station N-5-F, 0-6", Near Surface Soil	28.5 ppb	J		J;HC/R	J	A	A	A;Sb,Hg/J	
N-5-F-1395-101-S-L	Soil: Station N-5-F, 6-12", Near Surface Soil	69.3 ppb	J			J	A	A	A	
N-5-F-1396-102-S-T	Soil: Station N-5-F, 12-24", Near Surface Soil	385. ppb	R	J	J;HC/R					
E-1-C-1401-100-S-T	Soil: Station E-1-C, 0-6", Near Surface Soil	153. ppb	J		J;HC/R	J	A	A	A	
E-1-C-1402-101-S-L	Soil: Station E-1-C, 6-12", Near Surface Soil	4.2 ppb	J			J	A	A	A;Sb,Hg/J	
E-1-C-1403-102-S-T	Soil: Station E-1-C, 12-24", Near Surface Soil	8.6 ppb	J		J;HC/R					
F094-1418-N-L	Tank: Tank #94	236. ppb	R			J	A	A	A;Sb,Hg/J	
D-4-N-1437-100-S-T	Soil: Station D-4-N, 0-6", Inside Warehouse	3.6 ppb	J		J;HC/R					
						J	A	A	A	

TABLE (continued)
KUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT		ORGANIC PRIORITY POLLUTANT FRACTIONS						
				VOLATILE ORGANICS (VOA)			BNA	PEST.	HERBICIDE	METALS	CN/PH
D-4-N-1438-101-S-L	Soil: Station D-4-N, Inside Warehouse, 6-12"	2.3 ppb	J								
D-4-N-1439-102-S-T	Soil: Station D-4-N, 12-24", Inside Warehouse	1.2 ppb	J	J;HC/R							
G-5-F-1448-100-S-T	Soil: Station G-5-F, Near Surface Soil	361. ppb	R	J;HC/R			J	A	A	A	
G-5-F-1449-101-S-L	Soil: Station G-5-F, 6-12", Near Surface Soil	494. ppb	R				J	A	A	A	
G-5-F-1450-102-S-T	Soil: Station G-5-F, 12-24", Near Surface Soil	229. ppb	J	J;HC/R							
I-7-K-1451-290-W-L	Water: Station I-7-K, Well #3 Re-take for TCDD	0.049 ppb	R				J	A	A	A	
FB63-1452-W-L	Water: Field Blank-Well	0.065 ppb	R								
TB37-1453-W-L	Water: Trip Blank-Well	ND (0.001 ppb)	R								
9994-1458-W-L	Wipe: Program QC-Blank Wipe	ND (3.6 ng/wipe)	J								
9999-1464-W-L	Wipe: Program QC-Blank Wipe	ND (3.8 ng/wipe)	J								
9994-1461-W-L	Wipe: Program QC-Spiked Wipe	34.9 ng/wipe	J								
9999-1462-W-L	Wipe: Program QC-Spiked Wipe	34.7 ng/wipe	J								
9994-1463-W-L	Wipe: Program QC-Spiked Wipe	38.5 ng/wipe	J								
O-1-C-1464-100-S-L	Soil: Program QC-Virgin Soil	0.76 ppb	J								
O-1-C-1465-100-S-L	Soil: Program QC-Virgin Soil	1.6 ppb	J								
O-1-C-1466-100-S-L	Soil: Program QC-Virgin Soil	0.89 ppb	J								
O-1-C-1467-100-S-L	Soil: Program QC-Clarksburg Soil	725. ppb	J								
O-1-C-1468-100-S-L	Soil: Program QC-Clarksburg Soil	878. ppb	J								
O-1-C-1469-100-S-L	Soil: Program QC-Clarksburg Soil	780. ppb	J								
9999-1471-W-T	Water: Program QC Blank	ND (0.002 ppb)	J	A;HC/R							
C-6-B-1471-100-S-T	Soil: Station C-6-B, 0-6", Near Surface Soil	3.6 ppb	J	J;HC/UJ			A	A	A	A;As,Cu/R	
C-6-B-1472-101-S-L	Soil: Station C-6-B, 6-12", Near Surface Soil	87.5 ppb	J				J	A	A	A	
C-6-B-1473-102-S-T	Soil: Station C-6-B, 12-24", Near Surface Soil	12.2 ppb	J	J;HC/UJ							
C-6-B-1474-100-S-T	ITAS Split of C-6-B-1471-100-S-T	1.8 ppb	J	J;HC/UJ			J	A	A	A	
9400-1475-S-L	NJDEP Proficiency Sample A020-Blank Spike	1.7 ppb	R				J	A	A	A	
9400-1476-S-L	NJDEP Proficiency Sample A021	4.4 ppb	A								
9400-1477-S-L	NJDEP Proficiency Sample A022	1.1 ppb	J								
9400-1478-S-L	NJDEP Proficiency Sample A023	511. ppb	R	R							
A-4-F-1516-100-S-T	Soil: Station A-4-F, 0-6", Near Surface Soil	0.39 ppb	J	J;HC/R							
A-4-F-1517-101-S-L	Soil: Station A-4-F, 6-12", Near Surface Soil	1.2 ppb	J				J	J	J	A	
A-4-F-1518-102-S-T	Soil: Station A-4-F, 12-24", Near Surface Soil	7.1 ppb	J	J							
A-4-F-1519-101-S-L	ITAS Split of A-4-F-1517-101-S-L	8.7 ppb	J				J	J	J	A	
H-7-H-1520-100-S-T	Soil: Station H-7-H, 0-6", Near Surface Soil	29.5 ppb	J	J;HC/R							
H-7-H-1521-101-S-L	Soil: Station H-7-H, 6-12", Near Surface Soil	27.6 ppb	J				J	J	J	A	
7112-1523-W-L	Tank #112	No Recovery	R								
7118-1526-W-L	Tank: Tank #118	8.2 ppb	J								
MB41-1529-W-L	IN Wipe: Pre Smplg Head of Instrat #15684 Aftr Dcn	ND (11.2 ng/meter2)	J								
MB69-1530-W-L	IN Wipe: Pre Otsd Body o Decon Instrat #15684	ND (4.8 ng/meter2)	J								
FB84-1531-W-L	IN Wipe: Field Blank	ND (3.8 ng/wipe)	J								
MB89-1532-T-L	IN: Glass Fiber Filter, Personnel, Tank	26.3 ng/meter3	R								
MB91-1533-T-L	IN: Glass Fiber Filter, Personnel, Tank	ND (4.5 ng/meter3)	R								
FB87-1534-T-L	IN: Glass Fiber Filter, Field Blank	ND (11.3 ng/sample)	R								
7126-1539-W-L	Tank #126	5530. ppb	X	R							
7127-1540-W-L	Tank #127	4200. ppb	X	R							
I-5-D-1541-100-S-T	Soil: Station I-5-D, 0-6", Near Surface Soil	48.4 ppb	J	J;HC/R							
I-5-D-1542-101-S-L	Soil: Station I-5-D, 6-12", Near Surface Soil	14.4 ppb	J				J	A	A	A	

TABLE (continued)
NUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT	TCDD (Orig.)	TCDD (Re-run)	ORGANIC PRIORITY POLLUTANT FRACTIONS					
					VOLATILE ORGANICS (VOA)	BNA	PEST.	HERBICIDE	METALS	CN/PH
E-S-D-1543-102-S-T	Soil: Station E-S-D, 12-24", Near Surface Soil	10.8 ppb	J		J;HC/R	J	A	A	A	
FB89-1547-W-L	Wipe: Field Blank	7.2 ng/wipe	R							
7129-1548-R-L	Tank #129	679. ppb	R	J						
9409-1549-S-L	NJDEP Proficiency Sample A810-Blank Spike	1.7 ppb	R							
9409-1550-S-L	NJDEP Proficiency Sample A811	1.2 ppb	A							
9409-1551-S-L	NJDEP Proficiency Sample A812	3.6 ppb	R							
9409-1552-S-L	NJDEP Proficiency Sample A813	492. ppb	R	R						
N-2-N-1553-100-S-T	Soil: Station N-2-N, 0-6", Near Surface Soil	2390. ppb	R	J	J;HC/UJ	J	A	A	A;Sb,Hg,Se/J	
N-2-N-1554-101-S-L	Soil: Station N-2-N, 6-12", Near Surface Soil	1230. ppb	R	J						
N-2-N-1555-102-S-T	Soil: Station N-2-N, 12-24", Near Surface Soil	510. ppb	R	J	J;HC/UJ	J	A	A	A;Sb,Hg,Se/J	
FB90-1556-W-L	Water: Field Blank for Dioxin	ND (0.0097 ppb)	R							
G-S-I-1566-100-S-T	Soil: Station G-S-I, 0-6", Near Surface Soil, B /10	221. ppb	J		J;HC/UJ	J	A	A; **	A;Sb,Hg,Se/J	
G-S-I-1567-101-S-L	Soil: Station G-S-I, 6-12", Near Surface Soil, B /10	217. ppb	J							
G-S-I-1568-102-S-T	Soil: Station G-S-I, 12-24", Near Surface Soil, B /10	87.6 ppb	J		J;HC/UJ	J	A	A; **	A;Sb,Hg,Se/J	
G-3-I-1576-100-S-T	Soil: Station G-3-I, 0-6", Near Surface Soil	1010. ppb	R	J	J;HC/UJ	J	A	A; **	A;Sb,Hg,Se/J	
G-3-I-1577-101-S-L	Soil: Station G-3-I, 6-12", Near Surface Soil	96.3 ppb	J			J	A	A;24D/J,Dinoseb/R	A;Sb,Hg,Se/J	
G-3-I-1578-102-S-T	Soil: Station G-3-I, 12-24", Near Surface Soil	26.0 ppb	J		J;HC/UJ					
G-S-I-1586-201-S-L	Soil: Station G-S-I, Borehole #10, Silt	11.8 ppb	J			J	A	A	A;Sb,Hg,Se/J	
1546-1590-W-L	Wipe: Office Lab, West Wall, at Roof	168. ng/meter2	J							
FB92-1591-W-L	Wipe: Field Blank	10. ng/wipe	J							
9408-1592-S-L	NJDEP Proficiency Sample A816	502. ppb	R	R						
9409-1593-S-L	NJDEP Proficiency Sample A817	541. ppb	J	R						
9408-1594-S-L	NJDEP Proficiency Sample A818	1.1 ppb	J							
9409-1595-S-L	NJDEP Proficiency Sample A819-Blank Spike	1.5 ppb	R							
N-2-B-1598-100-S-T	Soil: Station N-2-B, 0-6", Near Surface Soil	93.5 ppb	J		J;HC/R	J	J	J	A;Sb,Hg,Se/J	
N-2-B-1599-101-S-L	Soil: Station N-2-B, 6-12", Near Surface Soil	47.8 ppb	J							
N-2-B-1600-102-S-T	Soil: Station N-2-B, 12-24", Near Surface Soil	177. ppb	J		J;HC/R	J	J	J	A;Sb,Hg,Se/J	
F-S-I-1644-100-S-T	Soil: Station F-S-I, 0-6", Near Surface Soil, B /11	478. ppb	J	J	J;HC/R	J	A	A	A	
F-S-I-1645-101-S-L	Soil: Station F-S-I, 6-12", Near Surface Soil, B /11	394. ppb	J	R		R	R	A	A	
F-S-I-1646-102-S-T	Soil: Station F-S-I, 12-24", Near Surface Soil, B /11	19,500. ppb	R	J	J;HC/R					
7135-1620-R-L	Tank #135	68,800. ppb	X	R						
FB96-1623-R-L	Water: Field Blank for Dioxin	ND (0.009 ppb)	R							
G-4-A-1627-100-S-T	Soil: Station G-4-A, 0-6", Near Surface Soil	276. ppb	J	J	J;HC/R	J	A	A	A	
G-4-A-1628-101-S-L	Soil: Station G-4-A, 6-12", Near Surface Soil	3690. ppb	R	J						
G-4-A-1629-102-S-T	Soil: Station G-4-A, 12-24", Near Surface Soil	1770. ppb	J	J	J;HC/R	J	A	A	A	
7136-1635-R-L	Tank: Tank #136	11.1 ppb	J							
9408-1653-S-L	NJDEP Proficiency Sample A824-Blank Spike	1.7 ppb	R							
9409-1654-S-L	NJDEP Proficiency Sample A825	4.2 ppb	A							
9408-1655-S-L	NJDEP Proficiency Sample A826	1.2 ppb	A							
9409-1656-S-L	NJDEP Proficiency Sample A827	393. ppb	A	J						
A-S-G-1660-100-S-T	Soil: Station A-S-G, 0-6", Near Surface Soil	695. ppb	R	J	J;HC/R	J	J	J	A	
A-S-G-1661-101-S-L	Soil: Station A-S-G, 6-12", Near Surface Soil	453. ppb	R	J						
A-S-G-1662-102-S-T	Soil: Station A-S-G, 12-24", Near Surface Soil	7.3 ppb	J		J;HC/R	J	J	J	A	
A-S-G-1663-101-S-L	ITAS Split of A-S-G-1661-101-S-L	526. ppb	R	J						
F-S-I-1668-201-S-L	Soil fr Shelby Tube Archive: B/11, F-S-I, 10.5-12.5'	ND (0.24 ppb)	J							
F-S-I-1668-201-S-L	Soil: Station F-S-I, Borehole #11, Silt	1.8 ppb	J							

** Dalapon, dicamba, dichloroprop, 2,4,5-TP, 2,4-DB, Dinoseb/R

TABLE 1 (Continued)
NUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT	TCDD (Orig.)	TCDD (Re-run)	ORGANIC PRIORITY POLLUTANT FRACTIONS					
					VOLATILE ORGANICS (VOA)	BNA	PEST.	HERBICIDE	METALS	CN/PH
F-S-E-1670-203-S-C	Soil fr Shelby Tube Archive: B/11, F-S-E, 14.5-16.5'	ND (0.18 ppb)	J							
9488-1675-S-L	NJDEP Proficiency Sample A028-Blank Spike	1.8 ppb	R							
9489-1676-S-L	NJDEP Proficiency Sample A029	4.5 ppb	A							
9488-1677-S-L	NJDEP Proficiency Sample A030	1.4 ppb	A							
9489-1678-S-L	NJDEP Proficiency Sample A031	595. ppb	J	R						
H648-1713-W-L	IN Wipe: Wheel of Drill Rig after Decon	ND (4.4 ng/meter2)	J							
H689-1714-W-L	IN Wipe: Back o Drill Rig on Steel Plates aftr Dcn	84. ng/meter2	J							
F193-1715-W-L	Wipe: IN Wipe, Field Blank	ND (1.5 ng/wipe)	J							
N-7-N-1723-102-S-T	Soil: Station N-7-N, 12-24", Near Surface Soil	226. ppb	J		A;MC,BT/R	R	A	A	A	
9488-1733-S-L	NJDEP Proficiency Sample A032-Blank Spike	1.6 ppb	R							
9489-1734-S-L	NJDEP Proficiency Sample A033	ND (0.76 ppb)	J							
9488-1735-S-L	NJDEP Proficiency Sample A034	554. ppb	R	R						
9489-1736-S-L	NJDEP Proficiency Sample A035	500. ppb	R	R						
G-3-L-1742-188-S-T	Soil: Station G-3-L, 0-6", Near Surface Soil	310. ppb	J	J	J;MC/R	J	A	A	A	
G-3-L-1743-181-S-L	Soil: Station G-3-L, 6-12", Near Surface Soil	126. ppb	J							
G-3-L-1744-182-S-T	Soil: Station G-3-L, 12-24", Near Surface Soil	33.4 ppb	J		J;MC/R	J	A	A	A	
K269-1754-T-L	IN: Glass Fiber Filter-Frnt Personnel Drl Rig Dcn	98.9 ng/meter3	J							
K288-1755-T-L	IN: Glass Fiber Filter-Bck Personnel Drl Rig Dcn	8.9 ng/meter3	J							
F186-1756-T-L	IN: Glass Fiber Filter-Field Blank	ND (3.3 ng/sample)	J							
K248-1757-T-L	IN: Glass Fiber Filter-Area Otsd Dcn Tent-Drl Rig	ND (18.1 ng/meter3)	J							
K589-1758-T-L	IN: RAD2-Area Otsd Decon Tent for Drill Rig	ND (9.6 ng/meter3)	J							
F187-1759-T-L	IN: RAD2-Field Blank	ND (52. ng/sample)	J							
K269-1760-T-L	IN: Glass Fiber Filter, Personnel-Soil Crew	1.8 ng/meter3	J							
K288-1761-T-L	IN: Glass Fiber Filter, Personnel-Soil Crew	1.7 ng/meter3	J							
9489-1762-S-L	NJDEP Proficiency Sample A036-Blank Spike	1.9 ppb	R							
J-6-K-1764-189-S-T	Soil: Station J-6-K, Near Surface Soil	2.5 ppb	J		J;MC/R	J	A	A	A	
J-6-K-1765-181-S-L	Soil: Station J-6-K, 6-12", Near Surface Soil	1.6 ppb	J							
J-6-K-1766-182-S-T	Soil: Station J-6-K, 12-24", Near Surface Soil	0.89 ppb	J		J;MC/UJ	J	A	A	A	
M-7-F-1775-188-S-T	Soil: Station M-7-F, 0-6", Near Surface Soil	9050. ppb	R	J	J;MC,BT,AC/R	A;BEP/R	A	A	A	
M-7-F-1776-181-S-L	Soil: Station M-7-F, 6-12", Near Surface Soil	2730. ppb	R	R						
M-7-F-1777-182-S-T	Soil: Station M-7-F, 12-24", Near Surface Soil	290. ppb	R		J;MC,BT,AC/R	A;BEP/R	A	A	A	
9488-1781-S-L	NJDEP Proficiency Sample A038-Blank Spike	1.6 ppb	J							
9489-1782-S-L	NJDEP Proficiency Sample A039	367. ppb	R	A						
1-3-B-1785-288-M-L	Sediment: Station 1-3-B, Passaic River, 0-12"	151. ppb	R							
1-3-B-1786-289-M-L	Sediment: Station 1-3-B, Passaic River, 12-24"	151. ppb	R							
1-3-B-1787-290-M-L	Sediment: Station 1-3-B, Passaic River, 24-36"	176. ppb	R							
1-3-B-1788-297-M-L	Sediment: Station 1-3-B, Passaic River, 36-48"	238. ppb	R							
1-3-B-1789-296-M-L	Sediment: Station 1-3-B, Passaic River, 48-60"	450. ppb	R							
F112-1795-M-L	Water: Field Blank	ND (0.0097 ppb)	J							
H649-1796-W-L	IN Wipe: Bck of Drl Rig-Dck Stl Plt-Right Side	72. ng/meter2	R							
H648-1797-W-L	IN Wipe: Steel High Pressure Air Bottle	18. ng/meter2	R							
H649-1798-W-L	IN Wipe: MSA Air Hose	124. ng/meter2	R							
H649-1799-W-L	IN Wipe: Steam Jenny Heater Tower	8.4 ng/meter2	R							
F113-1800-W-L	Wipe: Field Blank	ND (4.1 ng/wipe)	R							
A-3-C-1681-290-M-T	Water: Station A-3-C, Well #6	0.0086 ppb	J		J;MC/R	J;BEP/R	A	A	A;Sb,As/J;Be/R	R-T
A-2-K-1682-298-M-T	Water: Station A-2-K, Well #5	0.0059 ppb	J		J;MC/R	J;BEP/R	A	A	A;Sb,As/J;Be/R	R/T

TABLE 1 (continued)
NUS AUDIT QUALIFIERS
Field Samples for 2,3,7,8-TCDD and Full Priority Pollutants Analysis
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	2,3,7,8-TCDD RESULT	TCDD (Orig.)	TCDD (Re-run)	ORGANIC PRIORITY POLLUTANT FRACTIONS					
					VOLATILE ORGANICS (VOA)	BNA	PEST.	HERBICIDE	METALS	CN/PH
D-1-F-1843-298-N-T	Water: Station D-1-F, Well #7	ND (0.024 ppb)	J		J;MC/I	J;BCP/I	A	A	A;Sb,As/J;Be/I	L/I
C-C-1844-298-N-T	Water: Station C-7-C, Well #4	0.74 ppb	J		J	J;BCP/I	A	A	A;Sb,As/J;Be/I	L/I
F-7-B-1845-298-N-T	Water: Station F-7-B, Well #8	1.1 ppb	J		J	J;BCP/I	A	A	A;Sb,As/J;Be/I	
I-2-L-1846-298-N-T	Water: Station I-2-L, Well #1	0.56 ppb	J		J;MC/I	J;BCP/I	A	A	A;Sb,As/J;Be/I	L/I
I-7-E-1847-298-N-T	Water: Station I-7-E, Well #3	0.83 ppb	J		J;BC/I	J;BCP/I	A	A	A;Sb,As/J;Be/I	L/I
I-5-A-1848-298-N-T	Water: Station I-5-A, Well #2	4.3 ppb	J	J	J;MC/I	J;BCP/I	A	A	A;Sb,As/J;Be/I	L/I
0-9-0-1849-298-N-T	Water: Station 0-9-0, Passaic River	ND (0.007 ppb)	J		J;MC/I	J;BCP/I	A	A	A;Sb,As/J;Be/I	L/I
9649-1812-189-S-T	Background Surface Soil-Harrison Ave, ref: Spl #M9681	ND (0.17 ppb)	I		A;MC,TL/I	J	A	A	A	L/I
9649-1813-189-S-T	Background Surface Soil-Raymond Blvd, ref: spl #M9682	ND (0.27 ppb)	I		A;MC,TL/I	J	A	A	A	L/I
9649-1814-189-S-T	Background Surface Soil-Roanoke Ave, ref: spl #M9683	ND (0.77 ppb)	I		A;MC,TL/I	J	A	A	A	L/I
F114-1815-N-T	Water: Field Blank-Well	ND (0.0031 ppb)	J		J;MC/I	J	A	A	A	L/I
T858-1816-N-T	Water: Trip Blank-Well	ND (0.005 ppb)	J		J;MC/I	J;BCP/I	A	A	A	L/I
9649-1832-189-S-T	Background Soil Boring: Sherwin-Williams, 0-6"	1.2 ppb	J		J;MC/I	J;BCP/I	A	A	A	L/I
9649-1833-181-S-L	Background Soil Boring: Sherwin-Williams, 6-12"	5.1 ppb	J		A;MC/I	J	J	A	A	
9648-1834-182-S-T	Background Soil Boring: Sherwin-Williams, 12-24"	3.4 ppb	J							
9649-1841-189-S-T	Background Soil Boring: Sherwin-Williams, 11-12.5"	ND (0.57 ppb)	J		J;MC/I	J	J	A	A	
9649-1845-291-S-L	Background Soil Boring: Sherwin Williams, 15-17',silt	ND (0.76 ppb)	J		J;BC/I	J	J	A	A	
F116-1852-N-L	Water: Field Blank	ND (0.007 ppb)	I							
F117-1867-N-T	Water: Field Blank	ND (0.0036 ppb)	A							
T852-1868-N-T	Water: Trip Blank	ND (0.002 ppb)	A						A	
9650-1869-265-N-T	Background Well Water--Deep Well	ND (0.0018 ppb)	A						A	
9650-1870-298-N-T	Background Well Water--Shallow Well	ND (0.005 ppb)	A						A	
I-5-A-1872-298-N-L	Water: Station I-5-A, Well #2	9.4 ppb	J						A	
F118-1873-N-L	Water: Field Blank	ND (0.0015 ppb)	A							
9650-1874-265-N-T	Background Well Water, Deep	ND (0.005 ppb)	J							
9650-1875-298-N-T	Background Well Water, Shallow	ND (0.005 ppb)	J							
F119-1876-N-T	Water: Field Blank for Off-Site Wells	ND (0.009 ppb)	J							
T853-1877-N-T	Water: Trip Blank for Off-Site Wells	ND (0.005 ppb)	J							

TABLE 2

NUS AUDIT QUALIFIERS
Trip/Field Blanks for VOA Only
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	VOLATILE ORGANICS (VOA)
F022-0184-H-C	Field Blank-Sediment Sampling Team	A;MC,AC,CF,BD/UJ;BF/R
T009-0185-H-C	Trip Blank-Sediment Sampling Team	A;AC,CF,BD/J;MC/UJ;BF/R
F028-0297-H-C	Field Blank-Soil Boring Crew	J;MC/UJ
T012-0298-H-C	Trip Blank-Soil Boring Crew	J;MC/UJ
F030-0394-H-C	Field Blank-Soil Boring Crew	J;MC/UJ
T013-0395-H-C	Trip Blank-Soil Boring Crew	J;MC/UJ
F034-0432-H-C	Field Blank--Soil Boring	J;MC/UJ
T013-0433-H-C	Trip Blank-Soil Boring	J;MC/UJ
F042-0538-H-C	Field Blank--Soil Boring	A
T015-0539-H-C	Trip Blank--Soil Boring	A
T016-0595-H-C	Trip Blank--Soil Boring	A
F045-0596-H-C	Field Blank--Soil Boring	A
F047-0615-H-C	Field Blank--Soil Boring	A;MC,AC/UJ
T017-0616-H-C	Trip Blank--Soil Boring	A;MC/R
F049-0699-H-C	Field Blank--Soil Boring	A;MC,AC/UJ
F050-0708-H-C	Field Blank-Soil Boring	A;MC/R
T018-0709-H-C	Trip Blank-Soil Boring	A;MC/R
F052-0761-H-C	Field Blank-Soil Boring	A;MC,1TCA,TCLE,TTLE/UJ
T019-0762-H-C	Trip Blank-Soil Boring	J;MC/UJ
F053-0804-H-C	Field Blank-Soil Boring	J;MC,CF,BD/UJ
T020-0805-H-C	Trip Blank-Soil Boring	J;MC/UJ
F056-0858-H-C	Water-Field Blank-Soil Boring	J;MC/UJ
T021-0859-H-C	Water-Trip Blank-Soil Boring	J;MC/UJ
F057-0920-H-C	Water: Field Blank	J;MC/R
T021-0921-H-C	Trip Blank	J;MC/R
T022-0972-H-C	Water: Trip Blank-Soil	J;MC/R
T023-1060-H-C	Water: Trip Blank-Soil	A;MC/UJ
F060-1061-H-C	Water: Field Blank-Soil	A;MC,CF/UJ
F064-1117-H-C	Water: Soil Boring Field Blank	J;MC,CF,BD/R
T025-1118-H-C	Water: Trip Blank Soil	J;MC/R
F065-1161-H-C	Water: Field Blank	J
T026-1162-H-C	Water: Trip Blank	J;MC/R
F067-1207-H-C	Water: Field Blank-Soil Boring	J
T027-1208-H-C	Water: Trip Blank-Soil Boring	J;MC/R
F071-1252-H-C	Water: Field Blank-Soil Boring	J
T028-1253-H-C	Water: Trip Blank-Soil Boring	J;MC/R
F075-1301-H-C	Water: Field Blank	J
T029-1302-H-C	Water: Trip Blank	J;MC/R
F076-1331-H-C	Water: Field Blank-Soil Boring	A;MC/UJ
T030-1332-H-C	Water: Trip Blank-Soil Boring	A;MC/UJ
F077-1341-H-C	Water: Field Blank-Near Surface	A;MC/UJ
T031-1342-H-C	Water: Trip Blank-Near Surface	A;MC/UJ
F080-1376-H-C	Water: Field Blank-Near Surface	J;MC/R
T034-1377-H-C	Water: Trip Blank-Near Surface	J;MC/R
F081-1427-H-C	Water: Field Blank, Near Surface Soil	J;MC/R
T035-1428-H-C	Water: Trip Blank, Near Surface Soil	J;MC/R

TABLE 2

NUS AUDIT QUALIFIERS
Trip/Field Blanks for VOA Only
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	VOLATILE ORGANICS (VOA)
F084-1511-H-C	Water: Field Blank	J;MC/R
T838-1512-H-C	Water: Trip Blank	J;MC/R
F088-1545-H-C	Water: Field Blank	J;MC/R
T840-1546-H-C	Water: Trip Blank	J;MC/R
F091-1557-H-C	Water: Field Blank	J;MC/UJ
T841-1558-H-C	Water: Trip Blank	J;MC/UJ
F093-1601-H-C	Water: Field Blank	J;MC/UJ
T842-1602-H-C	Water-Trip Blank	J;MC/UJ
F095-1621-H-C	Water: Field Blank	J;MC/UJ
T843-1622-H-C	Water: Trip Blank	J;MC/UJ
F097-1657-H-C	Water: Field Blank	J;MC/UJ
T844-1658-H-C	Water: Trip Blank	J;MC/UJ
F099-1701-H-C	Water: Field Blank	J;MC/R
T845-1702-H-C	Water: Trip Blank	J;MC/R
F104-1730-H-C	Water: Field Blank	J;MC/R
T846-1731-H-C	Water: Trip Blank	J;MC/R
F108-1772-H-C	Water: Field Blank	J;MC/R
T847-1773-H-C	Water: Trip Blank	J;MC/R
F110-1783-H-C	Water: Field Blank	J;MC,AC,BT/R
T848-1784-H-C	Water: Trip Blank	J;MC,AC,BT/R
F111-1793-H-C	Water: Field Blank	A;MC/R
T849-1794-H-C	Water: Trip Blank	A;MC/R
F115-1842-H-C	Water: Field Blank, Off-Site Soil Boring	J;MC/R
T851-1843-H-C	Water: Trip Blank, Off-Site Soil Boring	J;MC/R

TABLE 3
NUS AUDIT QUALIFIERS
Trip/Field Blanks for Various Parameters
Diamond Shamrock Phase I - 80 Lister Avenue

SAMPLE IDENTIFICATION	DESCRIPTION	BASE/NEUTRAL/ACID ORGANICS (BNA)	PEST. PCB	HERBICIDES	METALS	CYANIDE/ PHENOL
F879-1374-N-R	Water: Field Blank for PP Metals				A	
F833-1375-N-R	Water: Trip Blank for PP Metals				A	
F882-1429-N-R	Water: Field Blank for Cyanides					A/-
F836-1430-N-R	Water: Trip Blank for Cyanides					A/-
F885-1513-N-R	Water: Field Blank for Phenols					-/A
F839-1514-N-R	Water: Trip Blank for Phenols					-/A
F894-1643-N-C	Water: Field Blank for Extractable Organic PP	J:DCB,DCXB,CCX/VJ				A/-
F898-1659-N-R	Water: Field Blank for Cyanide		A	A		
F169-1703-N-R	Water: Field Blank for PP Metals				A	
F185-1732-N-R	Water: Field Blank for Phenols					-/A
F169-1774-N-C	Water: Field Blank for Extractable Organic PP	A:DCB,BLP/R	A	A		

Table 4. Breakdown of NUS-Rejected Samples by Matrix

Sample Matrix	Number of Rejected Samples
Drums	22
Tanks	9
Sewers/Sumps	8
Concrete Chips	12
Wipes	15
Ambient Air	1
IH filters/tubes	3
River Sediments	6
Soils	33
Waters (includes field blanks)	19
PE Samples	15
TOTAL	143

ATTACHMENT 1

Format for Phase I Qualifier Entries, Tables 1-3

PRIMARY FRACTION QUALIFIER; EXCEPTION COMPOUNDS/EXCEPTION QUALIFIER

eg.:

A;Sb,Hg,Se/J

For the metals fraction, most of the analyte results were accepted. Antimony, mercury and selenium results, however were "J'd" (classified as semi-quantitative)

eg.:

A;24D/J,Dinoseb/R

For the herbicide fraction, most of the analyte results were accepted. The result for 2,4-D was J'd, and the dinoseb result was rejected.

ATTACHMENT 2

GLOSSARY: Compound Abbreviations used in Tables 1-3

Code	Compound Identification
AC	Acetone
As	Arsenic
BD	Bromodichloromethane
BF	Bromoform
BT	2-Butanone
BEP	bis-(2-ethyl hexyl)phthalate
Be	Beryllium
CF	Chloroform
Cu	Copper
CHX	Cyclohexanone
Ds or Dinoseb	Dinoseb (DNBP)
DT	DDT
DCB	1,2-Dichlorobenzene
DCMB	2,3-dichloro-2-methyl butane
Hg	Mercury
MC	Methylene chloride
PY	Pyrene
Se	Selenium
Sb	Antimony
TL	Toluene
TCLE	Trichloroethylene
TTLE	Tetrachloroethylene
Zn	Zinc
1TCA	1,1,1-trichloroethane
24D	2,4-D
24DB	2,4-DB