

932001

REVISED IRM COMPLETION REPORT

FOR

**CC METALS and ALLOYS, INC.
Witmer Road
Town of Niagara, New York**

Volume II of III

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Submitted to:

**New York State Department of
Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203**

**Attn: Regional Environmental Remediation Engineer
Region 9**

LAN

LAN ASSOCIATES^{INC.}

**ENVIRONMENTAL AND FACILITIES ENGINEERING
66 CUNA STREET ■ ST. AUGUSTINE, FL 32084-3619**

904-824-6999

FAX ■ 904-824-0726

*Admin
Records*

REVISED IRM COMPLETION REPORT

FOR

**CC METALS and ALLOYS, INC.
Witmer Road
Town of Niagara, New York**

Volume II of III

RECEIVED

NOV 22 1999

NYSDEC - REG. 9
FOIL
REL UNREL

Submitted to:

New York State Department of
Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203

Attn: Regional Environmental Remediation Engineer
Region 9

Prepared by:

LAN Associates, Inc.
66 Cuna Street
St. Augustine, FL 32084
on behalf of
CC Metals and Alloys, Inc.

© LAN Associates, Inc.

LAN Ref. #2.3269.22
November 11, 1999

LAN

LAN ASSOCIATES INC.

ENVIRONMENTAL AND FACILITIES ENGINEERING
66 CUNA STREET ■ ST. AUGUSTINE, FL 32084-3619

904-824-6999

FAX ■ 904-824-0726

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Volume II of III

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C	Groundwater and Surface Water Monitoring Results
D	Stormwater Monitoring Results
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APPENDICES

Appendix B

Phase I Test Pit Results

SKW ALLOYS

SKW METALS & ALLOYS

WITMER ROAD SITE

CHROMIUM INVESTIGATION

SAMPLE DATE: APRIL 28-29, 1998

Prepared By:

ADVANCED
ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

May 14, 1998
REF: DTT281P4
Lab ID No. 10233
REV1



P.O. Box 165
2186 Liberty Drive
Niagara Falls, NY 14304
(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

May 14, 1998

Mr. Edward Bredniak

SKW Alloys
P.O. Box 217
Calvert City, Kentucky 42029

Dear Mr. Bredniak,

Enclosed please find a revised copy of the Chromium Investigation report from the Witmer Road Site. An additional parameter was added to report per LAN Associates request.

Also enclosed is a revised invoice #32180, replacing previous invoice #32135 sent with the original report. Please discard invoice #32135 as we have voided this from our system.

If you have any questions regarding this report or invoice please call Maria Cassel at the above number or LAN Associates.

Sincerely,

A handwritten signature in cursive script that reads "Delores Schuman".

Delores Schuman
Office Manager

P.S. In the lower right corner you will find REV1 this is to show that it is a revised report and sometimes is helpful if the original has not been discarded.

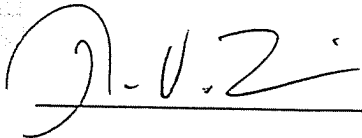
c: Skip Hutton - LAN Associates

QA/QC VERIFICATION FOR PROJECT ID 81P4

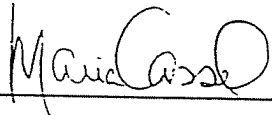
The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.

Subcontracted to Ecology and Environment, Inc.

Metals Department



Quality Control



Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted. Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested
D - Indicates a dilution was required

CLIENT: SKW Alloys

AES CLIENT ID: DIT

PROJECT ID: 81P4

Analytical Parameter(s)	Method	Method Detection Limit	Practical Quantifiable Limit	AES Sample ID		Units
				Client Sample ID	Sample ID	
Total Chromium *	SW 846 6010	0.7	1.4	81P4-1 A071 44-46"	81P4-2 A031 4-6"	mg/kg
				04/28/98 GRAB	04/28/98 GRAB	1740 0.51
Total Hexavalent Chromium **	SW 846 7196	---	0.40	81P4-3 A055	81P4-4 A082 24-30"	mg/kg
				04/28/98 GRAB	04/28/98 GRAB	1800 0.48

* Subcontracted to Ecology and Environment, Inc.

+ Trivalent Chromium is the difference between Total Chromium and Hexavalent Chromium.

CLIENT: SKW Alloys

AES CLIENT ID: DTT

PROJECT ID: 81P4

Analytical Parameter(s)	AES Sample ID		Method	Method Detection Limit	Practical Quantifiable Limit	Units	81P4-5 A012 12-14"		81P4-6 A064 12-17"		81P4-7 A048 28-30"		81P4-8 A048 12-24"	
	Client Sample ID	Client Sample ID					04/28/98 GRAB	04/28/98 GRAB	04/28/98 GRAB	04/28/98 GRAB	04/28/98 GRAB	04/28/98 GRAB		
Total Chromium *			SW 846 6010	0.7	1.4	mg/kg	741	1230			1310	96.9		
Total Hexavalent Chromium **			SW 846 7196	---	0.40	mg/kg	ND	ND			ND	ND		

* Subcontracted to Ecology and Environment, Inc.

+ Trivalent Chromium is the difference between Total Chromium and Hexavalent Chromium.

CLIENT: SKW Alloys

AES CLIENT ID: DTT

PROJECT ID: 81P4

Analytical Parameter(s)	Method	Method Detection Limit	Practical Quantifiable Limit	AES Sample ID		Units
				Client Sample ID	Sample ID	
Total Chromium *	SW 846 6010	0.7	1.4	81P4-9 033 8-12"	81P4-10 033 36"	mg/kg
Total Hexavalent Chromium **	SW 846 7196	---	0.40	81P4-9 033 8-12"	81P4-10 033 36"	mg/kg
				81P4-9 033 8-12"	81P4-11 114 16-21"	147
				81P4-9 033 8-12"	81P4-11 114 16-21"	ND
				81P4-9 033 8-12"	81P4-10 033 36"	164
				81P4-9 033 8-12"	81P4-10 033 36"	ND
				81P4-9 033 8-12"	81P4-11 114 16-21"	823
				81P4-9 033 8-12"	81P4-11 114 16-21"	ND
				81P4-9 033 8-12"	81P4-12 270 36-48"	13.7
				81P4-9 033 8-12"	81P4-12 270 36-48"	GRAB
				81P4-9 033 8-12"	81P4-12 270 36-48"	0.60

* Subcontracted to Ecology and Environment, Inc.

+ Trivalent Chromium is the difference between Total Chromium and Hexavalent Chromium.

PROJECT ID: 81P4

CLIENT: SKW Alloys

AES CLIENT ID: DTT

Analytical Parameter(s)	Method	Method Detection Limit	Practical Quantifiable Limit	AES Sample ID		81P4-13 092 20"	81P4-14 Field Equip Blank	81P4-15 Field Equip Blank	METHOD BLANK
				Client Sample ID	Sample ID				
Total Chromium *	SH 846 6010	0.7	1.4		04/29/98	GRAB	NR	NR	NR
Total Chromium **	EPA 200.7	---	10.0				ND	ND	NR
Total Hexavalent Chromium **	SH 846 7196	---	0.40				NR	NR	NR

* Subcontracted to Ecology and Environment, Inc.
+ Trivalent Chromium is the difference between Total Chromium and Hexavalent Chromium.

2186 Liberty Drive
Niagara Falls, NY 14304

(716) 791-7818
Fax (716) 283-4721

CUSTOMER NAME: SKW Metals & Alloys, Inc.
 PROJECT NAME: Witroy Road Site
 SAMPLER'S SIGNATURE: Nancy H. [Signature]

PROJECT I.D.#: 232696
 JOB CODE: DDA 81P4

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION					PARAMETERS / REMARKS	
					UNPRESERVED	H ₂ O ₂	HCL	NaOH	VIAL (PRES.)		OTHER
4/28/98	09:22	A071 44-46"	X	Soil	X					1	Total Chromium & Hex Chr
	09:48	A031 4-6"									
	10:55	A055									
	11:31	A082 24-30"									
	13:45	A012 12-14"									
	14:50	A064 12-17"									
	15:22	A048 28-30"									
	15:27	A048 12-24"									
	15:49	A048 (Soil Pile A)									
	15:49	A048 (Soil Pile B)									
4/29/98	09:12	033 8-12"	X								VOC's (TCL) 8260
09:36	09:36	033 36"									Semi VOC's (TCL) 8270
4/29/98	11:13	114 16-21"									Total Chromium
	14:31	270 36-48"									
	10:30	092 20"									

TOTAL NUMBER OF CONTAINERS 15

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>4/29/98</u>	TIME: <u>17:40</u>	RECEIVED BY: <u>[Signature]</u>
2. RELINQUISHED BY: <u>[Signature]</u>	DATE: _____	TIME: _____	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____

CHAIN OF CUSTODY HECOHU

CUSTOMER NAME: SKW Metals & Alloys, Inc.

PROJECT NAME: Witney Road Site

SAMPLER'S SIGNATURE: Mary H. Muth

ENVIRONMENTAL SERVICES, INC.
 2186 Liberty Drive
 Niagara Falls, NY 14304
 (716) 283-3120
 (800) 791-3120
 Fax (716) 283-4727

PROJECT I.D.#: 232696

JOB CODE: DDA 81P4

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION					PARAMETERS / REMARKS		
					UNPRESERVED	HNO ₃	HCL	NaOH	VIAL (PRES)		VIAL (UNPRES)	OTHER
4/28/98	09:22	A071 44-46"	X	Soil	X							Total Chromium
	09:48	A031 4-6"										
	10:55	A055										
	11:21	A082 24-30"										
	13:45	A012 12-14"										
	14:50	A064 12-17"										
	15:22	A048 28-30"										
	15:27	A048 12-24"										
	15:49	A048 (Soil Pile A)										VOC's (TCL) 2260
	15:49	A048 (Soil Pile B)										Semi VOC's (TCL) 2270
4/29/98	09:12	033 8-12"	X									Total Chromium
09:36	09:36	033 36"										
4/29/98	11:13	114 16-21"										
	14:31	270 36-48"										
	10:30	092 20"										
										TOTAL NUMBER OF CONTAINERS		15

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <u>Mary H. Muth</u>	RECEIVED BY: <u>[Signature]</u>
DATE: <u>4/29/98</u>	TIME: <u>17:40</u>
2. RELINQUISHED BY: _____	RECEIVED BY: _____
DATE: _____	TIME: _____
3. RELINQUISHED BY: _____	RECEIVED BY: _____
DATE: _____	TIME: _____

CHAIN OF CUSTODY RECORD



ENVIRONMENTAL SERVICES, INC.
2186 Liberty Drive
Niagara Falls, NY 14304
(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

CUSTOMER NAME: SKW Metals & Alloys, Inc

PROJECT NAME: _____

SAMPLER'S SIGNATURE: [Signature]

PROJECT I.D.#: 23269.6

JOB CODE: 07281P4

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION						PARAMETERS / REMARKS			
					UNPRESERVED	H ₂ SO ₄	HCL	NaOH	VIAL (PRES.)	VIAL (UNPRES.)		OTHER	TOTAL	
4/29/98	16:37	Field Equipment Blank	X	Water	X								1	Total Chromium
4/29/98	15:30	Field Equipment Blank	X		X								1	

TOTAL NUMBER OF CONTAINERS 2

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>4/29/98</u>	TIME: <u>17:40</u>	RECEIVED BY: <u>[Signature]</u>
2. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____

SKW ALLOYS

**ANALYSIS FOR VOLATILES AND
PETROLEUM PRODUCTS**

WITMER ROAD SITE - 2.3269.6

SAMPLE DATES: 30 APRIL - 1 MAY 1998

Prepared By:

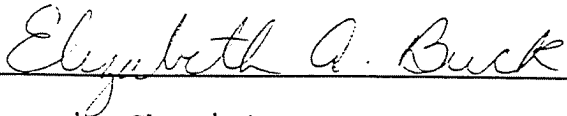
ADVANCED
ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

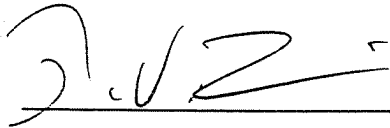
May 5, 1998
REF: DTT281PG/OR
Lab ID No. 10233

QA/QC VERIFICATION FOR PROJECT ID 81PG

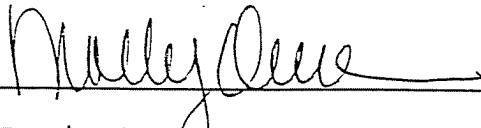
The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.



Organic Chemistry



Quality Control



Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted. Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested
D - Indicates a dilution was required

CLIENT: SKW Alloys
 SAMPLE ID: 154 A & B 30"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-1

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 154 A & B 30"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-1

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	ND	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	ND	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	ND	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021
Kerosene	ND	mg/kg	10	DOH 310-13 Modified *
Fuel Oil #2	ND	mg/kg	10	DOH 310-13 Modified

* Suspected petroleum product present, but unable to be quantified due to lack of matchable standard.

CLIENT: SKW Alloys SAMPLE ID: 154 A & B 30" COLLECTION METHOD: Grab COLLECTION DATE(S): 04/30/98 SAMPLE TYPE: Soil	AES CLIENT ID: DTT AES SAMPLE ID: 81PG-1 PROJECT ID: 81PG
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Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Fuel Oil #4	ND	mg/kg	10	DOH 310-13 Modified
Fuel Oil #6	ND	mg/kg	10	DOH 310-13 Modified
Diesel	ND	mg/kg	10	DOH 310-13 Modified
Gasoline	ND	mg/kg	---	DOH 310-13 Modified
Lubricating Oil	ND	mg/kg	---	DOH 310-13 Modified

CLIENT: SKW Alloys
 SAMPLE ID: 266 A & B 20"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-2

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	539	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	1350	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 266 A & B 20"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-2

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	2410	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	580	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	1770	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	2560	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	418	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021
Kerosene	ND	mg/kg	10	DOH 310-13 Modified *
Fuel Oil #2	ND	mg/kg	10	DOH 310-13 Modified

* Suspected petroleum product present, but unable to be quantified due to lack of matchable standard.

CLIENT: SKW Alloys
 SAMPLE ID: 266 A & B 20"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-2

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Fuel Oil #4	ND	mg/kg	10	DOH 310-13 Modified
Fuel Oil #6	ND	mg/kg	10	DOH 310-13 Modified
Diesel	ND	mg/kg	10	DOH 310-13 Modified
Gasoline	ND	mg/kg	---	DOH 310-13 Modified
Lubricating Oil	ND	mg/kg	---	DOH 310-13 Modified

CLIENT: SKW Alloys
 SAMPLE ID: 281 B & C 6-16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-3

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	936	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	580	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	835	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	404	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	548	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys SAMPLE ID: 281 B & C 6-16" COLLECTION METHOD: Grab COLLECTION DATE(S): 05/01/98 SAMPLE TYPE: Soil	AES CLIENT ID: DTT AES SAMPLE ID: 81PG-3 PROJECT ID: 81PG
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Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	1270	µg/kg	100	SW 846 8021
Isopropylbenzene	743	µg/kg	100	SW 846 8021
p-Isopropyltoluene	404	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	2590	µg/kg	100	SW 846 8021
Styrene	366	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	1530	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	2400	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	529	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 281 E & F 21"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-4

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 281 E & F 21"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-4

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	ND	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	ND	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	1040	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	ND	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 265 A 16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-5

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 265 A 16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-5

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	ND	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	ND	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	ND	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 267 A 6"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-6

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	540	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 267 A 6"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-6

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	334	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	ND	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	2.00	SW 846 8021
Tetrachloroethene	ND	µg/kg	2.00	SW 846 8021
Toluene	ND	µg/kg	2.00	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,2,4-Trichlorobenzene	2190	µg/kg	2.00	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	ND	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 251 A & B 24"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-7

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable	
			Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 251 A & B 24"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-7

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	ND	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	ND	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	362	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	ND	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: DTT

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	2.00	SW 846 8021
Bromobenzene	ND	µg/kg	2.00	SW 846 8021
Bromochloromethane	ND	µg/kg	2.00	SW 846 8021
Bromomethane	ND	µg/kg	2.00	SW 846 8021
n-Butylbenzene	ND	µg/kg	2.00	SW 846 8021
sec-Butylbenzene	ND	µg/kg	2.00	SW 846 8021
tert-Butylbenzene	ND	µg/kg	2.00	SW 846 8021
Carbon tetrachloride	ND	µg/kg	2.00	SW 846 8021
Chlorobenzene	ND	µg/kg	2.00	SW 846 8021
Chloroethane	ND	µg/kg	2.00	SW 846 8021
Chloroform	ND	µg/kg	2.00	SW 846 8021
Chloromethane	ND	µg/kg	2.00	SW 846 8021
2-Chlorotoluene	ND	µg/kg	2.00	SW 846 8021
4-Chlorotoluene	ND	µg/kg	2.00	SW 846 8021
Dibromomethane	ND	µg/kg	2.00	SW 846 8021
1,2-Dichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	2.00	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	2.00	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	2.00	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	2.00	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	2.00	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	2.00	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	2.00	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	2.00	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	2.00	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	2.00	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	2.00	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	2.00	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: DTT

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	2.00	SW 846 8021
Ethylbenzene	ND	µg/kg	2.00	SW 846 8021
Hexachlorobutadiene	ND	µg/kg	2.00	SW 846 8021
Isopropylbenzene	ND	µg/kg	2.00	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	2.00	SW 846 8021
Methylene chloride	ND	µg/kg	2.00	SW 846 8021
n-Propylbenzene	ND	µg/kg	2.00	SW 846 8021
Styrene	ND	µg/kg	2.00	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	2.00	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	2.00	SW 846 8021
Tetrachloroethene	ND	µg/kg	2.00	SW 846 8021
Toluene	ND	µg/kg	2.00	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,2,4-Trichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	2.00	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	2.00	SW 846 8021
Trichloroethene	ND	µg/kg	2.00	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	2.00	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	2.00	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	2.00	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	2.00	SW 846 8021
m-Xylene	ND	µg/kg	2.00	SW 846 8021
p-Xylene	ND	µg/kg	2.00	SW 846 8021
o-Xylene	ND	µg/kg	2.00	SW 846 8021
Vinyl Chloride	ND	µg/kg	2.00	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	2.00	SW 846 8021
Kerosene	ND	mg/kg	10	DOH 310-13 Modified *
Fuel Oil #2	ND	mg/kg	10	DOH 310-13 Modified

* Suspected petroleum product present, but unable to be quantified due to lack of matchable standard.

CLIENT: SKW Alloys SAMPLE ID: METHOD BLANK COLLECTION METHOD: COLLECTION DATE(S): SAMPLE TYPE:	AES CLIENT ID: DTT PROJECT ID: 81PG
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Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Fuel Oil #4	ND	mg/kg	10	DOH 310-13 Modified
Fuel Oil #6	ND	mg/kg	10	DOH 310-13 Modified
Diesel	ND	mg/kg	10	DOH 310-13 Modified
Gasoline	ND	mg/kg	---	DOH 310-13 Modified
Lubricating Oil	ND	mg/kg	---	DOH 310-13 Modified

CLIENT: SKW Alloys

AES CLIENT ID: DTT
 PROJECT ID: 81PG

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Benzene	SW 846 8021	---	Independent Standard	90
Bromobenzene	SW 846 8021	---	Independent Standard	104
Bromochloromethane	SW 846 8021	---	Independent Standard	107
Bromomethane	SW 846 8021	---	Independent Standard	96
n-Butylbenzene	SW 846 8021	---	Independent Standard	103
sec-Butylbenzene	SW 846 8021	---	Independent Standard	103
tert-Butylbenzene	SW 846 8021	---	Independent Standard	100
Carbon tetrachloride	SW 846 8021	---	Independent Standard	116
Chlorobenzene	SW 846 8021	---	Independent Standard	89
Chloroethane	SW 846 8021	---	Independent Standard	100
Chloroform	SW 846 8021	---	Independent Standard	116
Chloromethane	SW 846 8021	---	Independent Standard	110
2-Chlorotoluene	SW 846 8021	---	Independent Standard	106
4-Chlorotoluene	SW 846 8021	---	Independent Standard	95
Dibromomethane	SW 846 8021	---	Independent Standard	110
1,2-Dichlorobenzene	SW 846 8021	---	Independent Standard	114
1,3-Dichlorobenzene	SW 846 8021	---	Independent Standard	100
1,4-Dichlorobenzene	SW 846 8021	---	Independent Standard	93
Dichlorodifluoromethane	SW 846 8021	---	Independent Standard	98
1,1-Dichloroethane	SW 846 8021	---	Independent Standard	115
1,2-Dichloroethane	SW 846 8021	---	Independent Standard	110
1,1-Dichloroethene	SW 846 8021	---	Independent Standard	120
cis-1,2-Dichloroethene	SW 846 8021	---	Independent Standard	88
trans-1,2-Dichloroethene	SW 846 8021	---	Independent Standard	120
1,2-Dichloropropane	SW 846 8021	---	Independent Standard	115
1,3-Dichloropropane	SW 846 8021	---	Independent Standard	125
2,2-Dichloropropane	SW 846 8021	---	Independent Standard	120
1,1-Dichloropropene	SW 846 8021	---	Independent Standard	115
cis-1,3-Dichloropropene	SW 846 8021	---	Independent Standard	110

CLIENT: SKW Alloys

AES CLIENT ID: DTT
 PROJECT ID: 81PG

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
trans-1,3-Dichloropropene	SW 846 8021	---	Independent Standard	120
Ethylbenzene	SW 846 8021	---	Independent Standard	88
Hexachlorobutadiene	SW 846 8021	---	Independent Standard	87
Isopropylbenzene	SW 846 8021	---	Independent Standard	100
p-Isopropyltoluene	SW 846 8021	---	Independent Standard	103
Methylene chloride	SW 846 8021	---	Independent Standard	120
n-Propylbenzene	SW 846 8021	---	Independent Standard	89
Styrene	SW 846 8021	---	Independent Standard	95
1,1,1,2-Tetrachloroethane	SW 846 8021	---	Independent Standard	120
1,1,2,2-Tetrachloroethane	SW 846 8021	---	Independent Standard	118
Tetrachloroethene	SW 846 8021	---	Independent Standard	111
Toluene	SW 846 8021	---	Independent Standard	101
1,2,3-Trichlorobenzene	SW 846 8021	---	Independent Standard	103
1,2,4-Trichlorobenzene	SW 846 8021	---	Independent Standard	93
1,1,1-Trichloroethane	SW 846 8021	---	Independent Standard	114
1,1,2-Trichloroethane	SW 846 8021	---	Independent Standard	117
Trichloroethene	SW 846 8021	---	Independent Standard	117
Trichlorofluoromethane	SW 846 8021	---	Independent Standard	125
1,2,3-Trichloropropane	SW 846 8021	---	Independent Standard	98
1,2,4-Trimethylbenzene	SW 846 8021	---	Independent Standard	100
1,3,5-Trimethylbenzene	SW 846 8021	---	Independent Standard	101
m-Xylene	SW 846 8021	---	Independent Standard	95
p-Xylene	SW 846 8021	---	Independent Standard	95
o-Xylene	SW 846 8021	---	Independent Standard	90
Vinyl Chloride	SW 846 8021	---	Independent Standard	110
Methyl t-butyl ether (MTBE)	SW 846 8021	---	Independent Standard	100

Advanced Environmental Services, Inc.
Sample Traceability Report

Project Identification DIT BIPG

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analysis	Analytical Methodology	Analysis Date	Analysis
BIPG-1		-	-	310-13 MODI	5-4-98	BA	30-13-HMFI	5-4-98	UB
1-2		-	-	d	1	1		1	1

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

Advanced Environmental Services, Inc.
 Sample Traceability Report

Project Identification DTT2-81RG

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
DTT2-81RG-1	4/30/98								
-2	4/30/98								
-3	5/11/98						8021	5/11/98	CP
-4									
-5									
-6									
-7									

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.



ENVIRONMENTAL SERVICES, INC.
 2186 Liberty Drive
 Niagara Falls, NY 14304

(716) 283-3120
 (800) 791-3120
 Fax (716) 283-4727

CUSTOMER NAME: Skow Metals - A1koy

PROJECT NAME: Witmer Road

SAMPLER'S SIGNATURE: [Signature]

PROJECT I.D.#: 2-32696

JOB CODE: DTT

CONTAINER CLASSIFICATION			
UNPRESERVED	HNO ₃	H ₂ SO ₄	HCL
OTHER	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	HNO ₃	H ₂ SO ₄	HCL	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS / REMARKS
4:30	8:00	154 A+B 80"	X	Soil						2	82-1, 82-70, Petprod
	9:20	266 A+B 20"	X							2	82-1, 82-70, Petprod
5.1	10:45	281 B+C 6-16"	X							2	82-1, 82-70
	11"	281 E+F 21"	X							2	82-1, 82-70
	11:23	265 A+B 16"	X							1	82-1, 82-70
	11:58	267 A+B 16"	X							1	82-1, 82-70
	12:20	251 A+B 24"	X							2	82-1, 82-70
4:30	8:14	155 12-16"	X							2	Chromium
	10:30	181 9'	X							1	Chromium
	11:05	Field Equipment	X	Water						1	Chromium

TOTAL NUMBER OF CONTAINERS **15**

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <u>[Signature]</u>	DATE <u>5/1/98</u>	TIME <u>14:11</u>	RECEIVED BY: <u>[Signature]</u>
2. RELINQUISHED BY: <u>[Signature]</u>	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

SKW ALLOYS

**SAMPLE ANALYSIS FOR SEMI-VOLATILES
AND TOTAL CHROMIUM**

WITMER ROAD SITE - 2.3269.6

SAMPLE DATE: 30 APRIL - 1 MAY 1998

Prepared By:

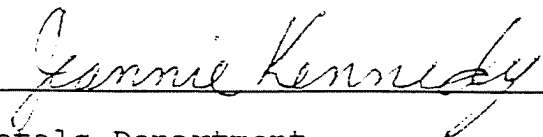
ADVANCED
ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

May 14, 1998
REF: DTT281PH/OR
Lab ID No. 10233

QA/QC VERIFICATION FOR PROJECT ID 81PH

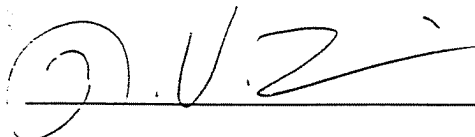
The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.



Metals Department



Organic Chemistry



Quality Control



Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted. Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested
D - Indicates a dilution was required

CLIENT: SKW Alloys
 SAMPLE ID: 154 A & B 30"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-1

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
n-nitrosodimethylamine	ND	mg/kg	8.25	SW 846 8270
Isophorone	ND	mg/kg	8.25	SW 846 8270
bis(2-chloroethoxy)methane	ND	mg/kg	8.25	SW 846 8270
1,2,4-Trichlorobenzene	ND	mg/kg	8.25	SW 846 8270
Naphthalene	ND	mg/kg	8.25	SW 846 8270
Hexachlorobutadiene	ND	mg/kg	8.25	SW 846 8270
Hexachlorocyclopentadiene	ND	mg/kg	8.25	SW 846 8270
2-Chloronaphthalene	ND	mg/kg	8.25	SW 846 8270
Dimethylphthalate	ND	mg/kg	8.25	SW 846 8270
2,6-Dinitrotoluene	ND	mg/kg	8.25	SW 846 8270
Acenaphthylene	ND	mg/kg	8.25	SW 846 8270
bis(2-chloroethyl)ether	ND	mg/kg	8.25	SW 846 8270
Acenaphthene	ND	mg/kg	8.25	SW 846 8270
2,4-Dinitrotoluene	ND	mg/kg	8.25	SW 846 8270
Diethylphthalate	ND	mg/kg	8.25	SW 846 8270
4-chlorophenyl phenyl ether	ND	mg/kg	8.25	SW 846 8270
Fluorene	ND	mg/kg	8.25	SW 846 8270
n-Nitrosodiphenylamine	ND	mg/kg	8.25	SW 846 8270
1,2-Diphenylhydrazine	ND	mg/kg	8.25	SW 846 8270
4-Bromophenylphenyl ether	ND	mg/kg	8.25	SW 846 8270
Hexachlorobenzene	ND	mg/kg	8.25	SW 846 8270
Phenanthrene	ND	mg/kg	8.25	SW 846 8270
1,3-Dichlorobenzene	ND	mg/kg	8.25	SW 846 8270
Anthracene	ND	mg/kg	8.25	SW 846 8270
di-n-Butylphthalate	ND	mg/kg	8.25	SW 846 8270
Fluoranthene	ND	mg/kg	8.25	SW 846 8270
Benzidine	ND	mg/kg	8.25	SW 846 8270
Pyrene	ND	mg/kg	8.25	SW 846 8270
Butylbenzylphthalate	ND	mg/kg	8.25	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 154 A & B 30"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-1

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
3,3'-Dichlorobenzidine	ND	mg/kg	8.25	SW 846 8270
Benzo(a)anthracene	ND	mg/kg	8.25	SW 846 8270
bis(2-ethylhexyl)phthalate	ND	mg/kg	8.25	SW 846 8270
Chrysene	ND	mg/kg	8.25	SW 846 8270
1,4-Dichlorobenzene	ND	mg/kg	8.25	SW 846 8270
di-n-Octylphthalate	ND	mg/kg	8.25	SW 846 8270
Benzo(b)fluoranthene	ND	mg/kg	8.25	SW 846 8270
Benzo(k)fluoranthene	ND	mg/kg	8.25	SW 846 8270
Benzo(a)pyrene	ND	mg/kg	8.25	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	mg/kg	8.25	SW 846 8270
Dibenzo(a,h)anthracene	ND	mg/kg	8.25	SW 846 8270
Benzo(g,h,i)perylene	ND	mg/kg	8.25	SW 846 8270
1,2-Dichlorobenzene	ND	mg/kg	8.25	SW 846 8270
bis(2-chloroisopropyl)ether	ND	mg/kg	8.25	SW 846 8270
n-Nitrosodi-n-propylamine	ND	mg/kg	8.25	SW 846 8270
Hexachloroethane	ND	mg/kg	8.25	SW 846 8270
Nitrobenzene	ND	mg/kg	8.25	SW 846 8270
Phenol	ND	mg/kg	8.25	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	mg/kg	8.25	SW 846 8270
Pentachlorophenol	ND	mg/kg	8.25	SW 846 8270
2-Nitrophenol	ND	mg/kg	8.25	SW 846 8270
2,4-Dimethylphenol	ND	mg/kg	8.25	SW 846 8270
2,4-Dichlorophenol	ND	mg/kg	8.25	SW 846 8270
2-Chlorophenol	ND	mg/kg	8.25	SW 846 8270
4-Chloro-3-methylphenol	ND	mg/kg	8.25	SW 846 8270
2,4,6-Trichlorophenol	ND	mg/kg	8.25	SW 846 8270
2,4-Dinitrophenol	ND	mg/kg	8.25	SW 846 8270
4-Nitrophenol	ND	mg/kg	8.25	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 266 A & B 20"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-2

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
n-nitrosodimethylamine	ND	mg/kg	8.25	SW 846 8270
Isophorone	ND	mg/kg	8.25	SW 846 8270
bis(2-chloroethoxy)methane	ND	mg/kg	8.25	SW 846 8270
1,2,4-Trichlorobenzene	ND	mg/kg	8.25	SW 846 8270
Naphthalene	ND	mg/kg	8.25	SW 846 8270
Hexachlorobutadiene	ND	mg/kg	8.25	SW 846 8270
Hexachlorocyclopentadiene	ND	mg/kg	8.25	SW 846 8270
2-Chloronaphthalene	ND	mg/kg	8.25	SW 846 8270
Dimethylphthalate	ND	mg/kg	8.25	SW 846 8270
2,6-Dinitrotoluene	ND	mg/kg	8.25	SW 846 8270
Acenaphthylene	ND	mg/kg	8.25	SW 846 8270
bis(2-chloroethyl)ether	ND	mg/kg	8.25	SW 846 8270
Acenaphthene	ND	mg/kg	8.25	SW 846 8270
2,4-Dinitrotoluene	ND	mg/kg	8.25	SW 846 8270
Diethylphthalate	ND	mg/kg	8.25	SW 846 8270
4-chlorophenyl phenyl ether	ND	mg/kg	8.25	SW 846 8270
Fluorene	ND	mg/kg	8.25	SW 846 8270
n-Nitrosodiphenylamine	ND	mg/kg	8.25	SW 846 8270
1,2-Diphenylhydrazine	ND	mg/kg	8.25	SW 846 8270
4-Bromophenylphenyl ether	ND	mg/kg	8.25	SW 846 8270
Hexachlorobenzene	ND	mg/kg	8.25	SW 846 8270
Phenanthrene	ND	mg/kg	8.25	SW 846 8270
1,3-Dichlorobenzene	ND	mg/kg	8.25	SW 846 8270
Anthracene	ND	mg/kg	8.25	SW 846 8270
di-n-Butylphthalate	ND	mg/kg	8.25	SW 846 8270
Fluoranthene	ND	mg/kg	8.25	SW 846 8270
Benzidine	ND	mg/kg	8.25	SW 846 8270
Pyrene	ND	mg/kg	8.25	SW 846 8270
Butylbenzylphthalate	ND	mg/kg	8.25	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 266 A & B 20"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-2

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
3,3'-Dichlorobenzidine	ND	mg/kg	8.25	SW 846 8270
Benzo(a)anthracene	ND	mg/kg	8.25	SW 846 8270
bis(2-ethylhexyl)phthalate	ND	mg/kg	8.25	SW 846 8270
Chrysene	ND	mg/kg	8.25	SW 846 8270
1,4-Dichlorobenzene	ND	mg/kg	8.25	SW 846 8270
di-n-Octylphthalate	ND	mg/kg	8.25	SW 846 8270
Benzo(b)fluoranthene	ND	mg/kg	8.25	SW 846 8270
Benzo(k)fluoranthene	ND	mg/kg	8.25	SW 846 8270
Benzo(a)pyrene	ND	mg/kg	8.25	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	mg/kg	8.25	SW 846 8270
Dibenzo(a,h)anthracene	ND	mg/kg	8.25	SW 846 8270
Benzo(g,h,i)perylene	ND	mg/kg	8.25	SW 846 8270
1,2-Dichlorobenzene	ND	mg/kg	8.25	SW 846 8270
bis(2-chloroisopropyl)ether	ND	mg/kg	8.25	SW 846 8270
n-Nitrosodi-n-propylamine	ND	mg/kg	8.25	SW 846 8270
Hexachloroethane	ND	mg/kg	8.25	SW 846 8270
Nitrobenzene	ND	mg/kg	8.25	SW 846 8270
Phenol	ND	mg/kg	8.25	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	mg/kg	8.25	SW 846 8270
Pentachlorophenol	ND	mg/kg	8.25	SW 846 8270
2-Nitrophenol	ND	mg/kg	8.25	SW 846 8270
2,4-Dimethylphenol	ND	mg/kg	8.25	SW 846 8270
2,4-Dichlorophenol	ND	mg/kg	8.25	SW 846 8270
2-Chlorophenol	ND	mg/kg	8.25	SW 846 8270
4-Chloro-3-methylphenol	ND	mg/kg	8.25	SW 846 8270
2,4,6-Trichlorophenol	ND	mg/kg	8.25	SW 846 8270
2,4-Dinitrophenol	ND	mg/kg	8.25	SW 846 8270
4-Nitrophenol	ND	mg/kg	8.25	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 281 B & C 6-16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-3

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
n-nitrosodimethylamine	ND	mg/kg	16	SW 846 8270
Isophorone	ND	mg/kg	16	SW 846 8270
bis(2-chloroethoxy)methane	ND	mg/kg	16	SW 846 8270
1,2,4-Trichlorobenzene	ND	mg/kg	16	SW 846 8270
Naphthalene	ND	mg/kg	16	SW 846 8270
Hexachlorobutadiene	ND	mg/kg	16	SW 846 8270
Hexachlorocyclopentadiene	ND	mg/kg	16	SW 846 8270
2-Chloronaphthalene	ND	mg/kg	16	SW 846 8270
Dimethylphthalate	ND	mg/kg	16	SW 846 8270
2,6-Dinitrotoluene	ND	mg/kg	16	SW 846 8270
Acenaphthylene	ND	mg/kg	16	SW 846 8270
bis(2-chloroethyl)ether	ND	mg/kg	16	SW 846 8270
Acenaphthene	ND	mg/kg	16	SW 846 8270
2,4-Dinitrotoluene	ND	mg/kg	16	SW 846 8270
Diethylphthalate	ND	mg/kg	16	SW 846 8270
4-chlorophenyl phenyl ether	ND	mg/kg	16	SW 846 8270
Fluorene	ND	mg/kg	16	SW 846 8270
n-Nitrosodiphenylamine	ND	mg/kg	16	SW 846 8270
1,2-Diphenylhydrazine	ND	mg/kg	16	SW 846 8270
4-Bromophenylphenyl ether	ND	mg/kg	16	SW 846 8270
Hexachlorobenzene	ND	mg/kg	16	SW 846 8270
Phenanthrene	ND	mg/kg	16	SW 846 8270
1,3-Dichlorobenzene	ND	mg/kg	16	SW 846 8270
Anthracene	ND	mg/kg	16	SW 846 8270
di-n-Butylphthalate	ND	mg/kg	16	SW 846 8270
Fluoranthene	ND	mg/kg	16	SW 846 8270
Benzidine	ND	mg/kg	16	SW 846 8270
Pyrene	ND	mg/kg	16	SW 846 8270
Butylbenzylphthalate	ND	mg/kg	16	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 281 B & C 6-16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-3

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
3,3'-Dichlorobenzidine	ND	mg/kg	16	SW 846 8270
Benzo(a)anthracene	ND	mg/kg	16	SW 846 8270
bis(2-ethylhexyl)phthalate	ND	mg/kg	16	SW 846 8270
Chrysene	ND	mg/kg	16	SW 846 8270
1,4-Dichlorobenzene	ND	mg/kg	16	SW 846 8270
di-n-Octylphthalate	ND	mg/kg	16	SW 846 8270
Benzo(b)fluoranthene	ND	mg/kg	16	SW 846 8270
Benzo(k)fluoranthene	ND	mg/kg	16	SW 846 8270
Benzo(a)pyrene	ND	mg/kg	16	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	mg/kg	16	SW 846 8270
Dibenzo(a,h)anthracene	ND	mg/kg	16	SW 846 8270
Benzo(g,h,i)perylene	ND	mg/kg	16	SW 846 8270
1,2-Dichlorobenzene	ND	mg/kg	16	SW 846 8270
bis(2-chloroisopropyl)ether	ND	mg/kg	16	SW 846 8270
n-Nitrosodi-n-propylamine	ND	mg/kg	16	SW 846 8270
Hexachloroethane	ND	mg/kg	16	SW 846 8270
Nitrobenzene	ND	mg/kg	16	SW 846 8270
Phenol	ND	mg/kg	16	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	mg/kg	16	SW 846 8270
Pentachlorophenol	ND	mg/kg	16	SW 846 8270
2-Nitrophenol	ND	mg/kg	16	SW 846 8270
2,4-Dimethylphenol	ND	mg/kg	16	SW 846 8270
2,4-Dichlorophenol	ND	mg/kg	16	SW 846 8270
2-Chlorophenol	ND	mg/kg	16	SW 846 8270
4-Chloro-3-methylphenol	ND	mg/kg	16	SW 846 8270
2,4,6-Trichlorophenol	ND	mg/kg	16	SW 846 8270
2,4-Dinitrophenol	ND	mg/kg	16	SW 846 8270
4-Nitrophenol	ND	mg/kg	16	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 281 E & F 21"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-4

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
n-nitrosodimethylamine	ND	mg/kg	0.33	SW 846 8270
Isophorone	ND	mg/kg	0.33	SW 846 8270
bis(2-chloroethoxy)methane	ND	mg/kg	0.33	SW 846 8270
1,2,4-Trichlorobenzene	ND	mg/kg	0.33	SW 846 8270
Naphthalene	ND	mg/kg	0.33	SW 846 8270
Hexachlorobutadiene	ND	mg/kg	0.33	SW 846 8270
Hexachlorocyclopentadiene	ND	mg/kg	0.33	SW 846 8270
2-Chloronaphthalene	ND	mg/kg	0.33	SW 846 8270
Dimethylphthalate	ND	mg/kg	0.33	SW 846 8270
2,6-Dinitrotoluene	ND	mg/kg	0.33	SW 846 8270
Acenaphthylene	ND	mg/kg	0.33	SW 846 8270
bis(2-chloroethyl)ether	ND	mg/kg	0.33	SW 846 8270
Acenaphthene	ND	mg/kg	0.33	SW 846 8270
2,4-Dinitrotoluene	ND	mg/kg	0.33	SW 846 8270
Diethylphthalate	ND	mg/kg	0.33	SW 846 8270
4-chlorophenyl phenyl ether	ND	mg/kg	0.33	SW 846 8270
Fluorene	ND	mg/kg	0.33	SW 846 8270
n-Nitrosodiphenylamine	ND	mg/kg	0.33	SW 846 8270
1,2-Diphenylhydrazine	ND	mg/kg	0.33	SW 846 8270
4-Bromophenylphenyl ether	ND	mg/kg	0.33	SW 846 8270
Hexachlorobenzene	ND	mg/kg	0.33	SW 846 8270
Phenanthrene	ND	mg/kg	0.33	SW 846 8270
1,3-Dichlorobenzene	ND	mg/kg	0.33	SW 846 8270
Anthracene	ND	mg/kg	0.33	SW 846 8270
di-n-Butylphthalate	1.1	mg/kg	0.33	SW 846 8270
Fluoranthene	ND	mg/kg	0.33	SW 846 8270
Benzidine	ND	mg/kg	0.33	SW 846 8270
Pyrene	ND	mg/kg	0.33	SW 846 8270
Butylbenzylphthalate	ND	mg/kg	0.33	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 281 E & F 21"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-4

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
3,3'-Dichlorobenzidine	ND	mg/kg	0.33	SW 846 8270
Benzo(a)anthracene	ND	mg/kg	0.33	SW 846 8270
bis(2-ethylhexyl)phthalate	0.46	mg/kg	0.33	SW 846 8270
Chrysene	ND	mg/kg	0.33	SW 846 8270
1,4-Dichlorobenzene	ND	mg/kg	0.33	SW 846 8270
di-n-Octylphthalate	ND	mg/kg	0.33	SW 846 8270
Benzo(b)fluoranthene	ND	mg/kg	0.33	SW 846 8270
Benzo(k)fluoranthene	ND	mg/kg	0.33	SW 846 8270
Benzo(a)pyrene	ND	mg/kg	0.33	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.33	SW 846 8270
Dibenzo(a,h)anthracene	ND	mg/kg	0.33	SW 846 8270
Benzo(g,h,i)perylene	ND	mg/kg	0.33	SW 846 8270
1,2-Dichlorobenzene	ND	mg/kg	0.33	SW 846 8270
bis(2-chloroisopropyl)ether	ND	mg/kg	0.33	SW 846 8270
n-Nitrosodi-n-propylamine	ND	mg/kg	0.33	SW 846 8270
Hexachloroethane	ND	mg/kg	0.33	SW 846 8270
Nitrobenzene	ND	mg/kg	0.33	SW 846 8270
Phenol	ND	mg/kg	0.33	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.33	SW 846 8270
Pentachlorophenol	ND	mg/kg	0.33	SW 846 8270
2-Nitrophenol	ND	mg/kg	0.33	SW 846 8270
2,4-Dimethylphenol	ND	mg/kg	0.33	SW 846 8270
2,4-Dichlorophenol	ND	mg/kg	0.33	SW 846 8270
2-Chlorophenol	ND	mg/kg	0.33	SW 846 8270
4-Chloro-3-methylphenol	ND	mg/kg	0.33	SW 846 8270
2,4,6-Trichlorophenol	ND	mg/kg	0.33	SW 846 8270
2,4-Dinitrophenol	ND	mg/kg	0.33	SW 846 8270
4-Nitrophenol	ND	mg/kg	0.33	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 265 A 16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-5

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
n-nitrosodimethylamine	ND	mg/kg	8.25	SW 846 8270
Isophorone	ND	mg/kg	8.25	SW 846 8270
bis(2-chloroethoxy)methane	ND	mg/kg	8.25	SW 846 8270
1,2,4-Trichlorobenzene	ND	mg/kg	8.25	SW 846 8270
Naphthalene	ND	mg/kg	8.25	SW 846 8270
Hexachlorobutadiene	ND	mg/kg	8.25	SW 846 8270
Hexachlorocyclopentadiene	ND	mg/kg	8.25	SW 846 8270
2-Chloronaphthalene	ND	mg/kg	8.25	SW 846 8270
Dimethylphthalate	ND	mg/kg	8.25	SW 846 8270
2,6-Dinitrotoluene	ND	mg/kg	8.25	SW 846 8270
Acenaphthylene	ND	mg/kg	8.25	SW 846 8270
bis(2-chloroethyl)ether	ND	mg/kg	8.25	SW 846 8270
Acenaphthene	ND	mg/kg	8.25	SW 846 8270
2,4-Dinitrotoluene	ND	mg/kg	8.25	SW 846 8270
Diethylphthalate	ND	mg/kg	8.25	SW 846 8270
4-chlorophenyl phenyl ether	ND	mg/kg	8.25	SW 846 8270
Fluorene	ND	mg/kg	8.25	SW 846 8270
n-Nitrosodiphenylamine	ND	mg/kg	8.25	SW 846 8270
1,2-Diphenylhydrazine	ND	mg/kg	8.25	SW 846 8270
4-Bromophenylphenyl ether	ND	mg/kg	8.25	SW 846 8270
Hexachlorobenzene	ND	mg/kg	8.25	SW 846 8270
Phenanthrene	ND	mg/kg	8.25	SW 846 8270
1,3-Dichlorobenzene	ND	mg/kg	8.25	SW 846 8270
Anthracene	ND	mg/kg	8.25	SW 846 8270
di-n-Butylphthalate	ND	mg/kg	8.25	SW 846 8270
Fluoranthene	ND	mg/kg	8.25	SW 846 8270
Benzidine	ND	mg/kg	8.25	SW 846 8270
Pyrene	ND	mg/kg	8.25	SW 846 8270
Butylbenzylphthalate	ND	mg/kg	8.25	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 265 A 16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-5

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
3,3'-Dichlorobenzidine	ND	mg/kg	8.25	SW 846 8270
Benzo(a)anthracene	ND	mg/kg	8.25	SW 846 8270
bis(2-ethylhexyl)phthalate	ND	mg/kg	8.25	SW 846 8270
Chrysene	ND	mg/kg	8.25	SW 846 8270
1,4-Dichlorobenzene	ND	mg/kg	8.25	SW 846 8270
di-n-Octylphthalate	ND	mg/kg	8.25	SW 846 8270
Benzo(b)fluoranthene	ND	mg/kg	8.25	SW 846 8270
Benzo(k)fluoranthene	ND	mg/kg	8.25	SW 846 8270
Benzo(a)pyrene	ND	mg/kg	8.25	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	mg/kg	8.25	SW 846 8270
Dibenzo(a,h)anthracene	ND	mg/kg	8.25	SW 846 8270
Benzo(g,h,i)perylene	ND	mg/kg	8.25	SW 846 8270
1,2-Dichlorobenzene	ND	mg/kg	8.25	SW 846 8270
bis(2-chloroisopropyl)ether	ND	mg/kg	8.25	SW 846 8270
n-Nitrosodi-n-propylamine	ND	mg/kg	8.25	SW 846 8270
Hexachloroethane	ND	mg/kg	8.25	SW 846 8270
Nitrobenzene	ND	mg/kg	8.25	SW 846 8270
Phenol	ND	mg/kg	8.25	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	mg/kg	8.25	SW 846 8270
Pentachlorophenol	ND	mg/kg	8.25	SW 846 8270
2-Nitrophenol	ND	mg/kg	8.25	SW 846 8270
2,4-Dimethylphenol	ND	mg/kg	8.25	SW 846 8270
2,4-Dichlorophenol	ND	mg/kg	8.25	SW 846 8270
2-Chlorophenol	ND	mg/kg	8.25	SW 846 8270
4-Chloro-3-methylphenol	ND	mg/kg	8.25	SW 846 8270
2,4,6-Trichlorophenol	ND	mg/kg	8.25	SW 846 8270
2,4-Dinitrophenol	ND	mg/kg	8.25	SW 846 8270
4-Nitrophenol	ND	mg/kg	8.25	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 267 A 6"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-6

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
n-nitrosodimethylamine	ND	mg/kg	16	SW 846 8270
Isophorone	ND	mg/kg	16	SW 846 8270
bis(2-chloroethoxy)methane	ND	mg/kg	16	SW 846 8270
1,2,4-Trichlorobenzene	ND	mg/kg	16	SW 846 8270
Naphthalene	ND	mg/kg	16	SW 846 8270
Hexachlorobutadiene	ND	mg/kg	16	SW 846 8270
Hexachlorocyclopentadiene	ND	mg/kg	16	SW 846 8270
2-Chloronaphthalene	ND	mg/kg	16	SW 846 8270
Dimethylphthalate	ND	mg/kg	16	SW 846 8270
2,6-Dinitrotoluene	ND	mg/kg	16	SW 846 8270
Acenaphthylene	ND	mg/kg	16	SW 846 8270
bis(2-chloroethyl)ether	ND	mg/kg	16	SW 846 8270
Acenaphthene	ND	mg/kg	16	SW 846 8270
2,4-Dinitrotoluene	ND	mg/kg	16	SW 846 8270
Diethylphthalate	ND	mg/kg	16	SW 846 8270
4-chlorophenyl phenyl ether	ND	mg/kg	16	SW 846 8270
Fluorene	ND	mg/kg	16	SW 846 8270
n-Nitrosodiphenylamine	ND	mg/kg	16	SW 846 8270
1,2-Diphenylhydrazine	ND	mg/kg	16	SW 846 8270
4-Bromophenylphenyl ether	ND	mg/kg	16	SW 846 8270
Hexachlorobenzene	ND	mg/kg	16	SW 846 8270
Phenanthrene	ND	mg/kg	16	SW 846 8270
1,3-Dichlorobenzene	ND	mg/kg	16	SW 846 8270
Anthracene	ND	mg/kg	16	SW 846 8270
di-n-Butylphthalate	ND	mg/kg	16	SW 846 8270
Fluoranthene	ND	mg/kg	16	SW 846 8270
Benzidine	ND	mg/kg	16	SW 846 8270
Pyrene	ND	mg/kg	16	SW 846 8270
Butylbenzylphthalate	ND	mg/kg	16	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 267 A 6"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-6

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
3,3'-Dichlorobenzidine	ND	mg/kg	16	SW 846 8270
Benzo(a)anthracene	ND	mg/kg	16	SW 846 8270
bis(2-ethylhexyl)phthalate	ND	mg/kg	16	SW 846 8270
Chrysene	ND	mg/kg	16	SW 846 8270
1,4-Dichlorobenzene	ND	mg/kg	16	SW 846 8270
di-n-Octylphthalate	ND	mg/kg	16	SW 846 8270
Benzo(b)fluoranthene	ND	mg/kg	16	SW 846 8270
Benzo(k)fluoranthene	ND	mg/kg	16	SW 846 8270
Benzo(a)pyrene	ND	mg/kg	16	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	mg/kg	16	SW 846 8270
Dibenzo(a,h)anthracene	ND	mg/kg	16	SW 846 8270
Benzo(g,h,i)perylene	ND	mg/kg	16	SW 846 8270
1,2-Dichlorobenzene	ND	mg/kg	16	SW 846 8270
bis(2-chloroisopropyl)ether	ND	mg/kg	16	SW 846 8270
n-Nitrosodi-n-propylamine	ND	mg/kg	16	SW 846 8270
Hexachloroethane	ND	mg/kg	16	SW 846 8270
Nitrobenzene	ND	mg/kg	16	SW 846 8270
Phenol	ND	mg/kg	16	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	mg/kg	16	SW 846 8270
Pentachlorophenol	ND	mg/kg	16	SW 846 8270
2-Nitrophenol	ND	mg/kg	16	SW 846 8270
2,4-Dimethylphenol	ND	mg/kg	16	SW 846 8270
2,4-Dichlorophenol	ND	mg/kg	16	SW 846 8270
2-Chlorophenol	ND	mg/kg	16	SW 846 8270
4-Chloro-3-methylphenol	ND	mg/kg	16	SW 846 8270
2,4,6-Trichlorophenol	ND	mg/kg	16	SW 846 8270
2,4-Dinitrophenol	ND	mg/kg	16	SW 846 8270
4-Nitrophenol	ND	mg/kg	16	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 251 A & B 24"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-7

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
n-nitrosodimethylamine	ND	mg/kg	16	SW 846 8270
Isophorone	ND	mg/kg	16	SW 846 8270
bis(2-chloroethoxy)methane	ND	mg/kg	16	SW 846 8270
1,2,4-Trichlorobenzene	ND	mg/kg	16	SW 846 8270
Naphthalene	ND	mg/kg	16	SW 846 8270
Hexachlorobutadiene	ND	mg/kg	16	SW 846 8270
Hexachlorocyclopentadiene	ND	mg/kg	16	SW 846 8270
2-Chloronaphthalene	ND	mg/kg	16	SW 846 8270
Dimethylphthalate	ND	mg/kg	16	SW 846 8270
2,6-Dinitrotoluene	ND	mg/kg	16	SW 846 8270
Acenaphthylene	ND	mg/kg	16	SW 846 8270
bis(2-chloroethyl)ether	ND	mg/kg	16	SW 846 8270
Acenaphthene	ND	mg/kg	16	SW 846 8270
2,4-Dinitrotoluene	ND	mg/kg	16	SW 846 8270
Diethylphthalate	ND	mg/kg	16	SW 846 8270
4-chlorophenyl phenyl ether	ND	mg/kg	16	SW 846 8270
Fluorene	ND	mg/kg	16	SW 846 8270
n-Nitrosodiphenylamine	ND	mg/kg	16	SW 846 8270
1,2-Diphenylhydrazine	ND	mg/kg	16	SW 846 8270
4-Bromophenylphenyl ether	ND	mg/kg	16	SW 846 8270
Hexachlorobenzene	ND	mg/kg	16	SW 846 8270
Phenanthrene	ND	mg/kg	16	SW 846 8270
1,3-Dichlorobenzene	ND	mg/kg	16	SW 846 8270
Anthracene	ND	mg/kg	16	SW 846 8270
di-n-Butylphthalate	ND	mg/kg	16	SW 846 8270
Fluoranthene	ND	mg/kg	16	SW 846 8270
Benzidine	ND	mg/kg	16	SW 846 8270
Pyrene	ND	mg/kg	16	SW 846 8270
Butylbenzylphthalate	ND	mg/kg	16	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 251 A & B 24"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-7

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
3,3'-Dichlorobenzidine	ND	mg/kg	16	SW 846 8270
Benzo(a)anthracene	ND	mg/kg	16	SW 846 8270
bis(2-ethylhexyl)phthalate	ND	mg/kg	16	SW 846 8270
Chrysene	ND	mg/kg	16	SW 846 8270
1,4-Dichlorobenzene	ND	mg/kg	16	SW 846 8270
di-n-Octylphthalate	ND	mg/kg	16	SW 846 8270
Benzo(b)fluoranthene	ND	mg/kg	16	SW 846 8270
Benzo(k)fluoranthene	ND	mg/kg	16	SW 846 8270
Benzo(a)pyrene	ND	mg/kg	16	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	mg/kg	16	SW 846 8270
Dibenzo(a,h)anthracene	ND	mg/kg	16	SW 846 8270
Benzo(g,h,i)perylene	ND	mg/kg	16	SW 846 8270
1,2-Dichlorobenzene	ND	mg/kg	16	SW 846 8270
bis(2-chloroisopropyl)ether	ND	mg/kg	16	SW 846 8270
n-Nitrosodi-n-propylamine	ND	mg/kg	16	SW 846 8270
Hexachloroethane	ND	mg/kg	16	SW 846 8270
Nitrobenzene	ND	mg/kg	16	SW 846 8270
Phenol	ND	mg/kg	16	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	mg/kg	16	SW 846 8270
Pentachlorophenol	ND	mg/kg	16	SW 846 8270
2-Nitrophenol	ND	mg/kg	16	SW 846 8270
2,4-Dimethylphenol	ND	mg/kg	16	SW 846 8270
2,4-Dichlorophenol	ND	mg/kg	16	SW 846 8270
2-Chlorophenol	ND	mg/kg	16	SW 846 8270
4-Chloro-3-methylphenol	ND	mg/kg	16	SW 846 8270
2,4,6-Trichlorophenol	ND	mg/kg	16	SW 846 8270
2,4-Dinitrophenol	ND	mg/kg	16	SW 846 8270
4-Nitrophenol	ND	mg/kg	16	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: 155 12-16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-8

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Total Chromium	7.0	mg/kg	0.01	SW 846 6010 *

* SW 846 6010 subcontracted to Ecology & Environment

CLIENT: SKW Alloys
 SAMPLE ID: 181 9'
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-9

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Total Chromium	6.9	mg/kg	0.01	SW 846 6010 *

* SW 846 6010 subcontracted to Ecology & Environment

CLIENT: SKW Alloys
 SAMPLE ID: Field Equipment Blank
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Water

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PH-10

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Total Chromium	ND	mg/L	0.010	EPA 200.7

CLIENT: SKW Alloys SAMPLE ID: METHOD BLANK COLLECTION METHOD: COLLECTION DATE(S): SAMPLE TYPE:	AES CLIENT ID: DTT PROJECT ID: 81PH
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Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
n-nitrosodimethylamine	ND	mg/kg	0.33	SW 846 8270
Isophorone	ND	mg/kg	0.33	SW 846 8270
bis(2-chloroethoxy)methane	ND	mg/kg	0.33	SW 846 8270
1,2,4-Trichlorobenzene	ND	mg/kg	0.33	SW 846 8270
Naphthalene	ND	mg/kg	0.33	SW 846 8270
Hexachlorobutadiene	ND	mg/kg	0.33	SW 846 8270
Hexachlorocyclopentadiene	ND	mg/kg	0.33	SW 846 8270
2-Chloronaphthalene	ND	mg/kg	0.33	SW 846 8270
Dimethylphthalate	ND	mg/kg	0.33	SW 846 8270
2,6-Dinitrotoluene	ND	mg/kg	0.33	SW 846 8270
Acenaphthylene	ND	mg/kg	0.33	SW 846 8270
bis(2-chloroethyl)ether	ND	mg/kg	0.33	SW 846 8270
Acenaphthene	ND	mg/kg	0.33	SW 846 8270
2,4-Dinitrotoluene	ND	mg/kg	0.33	SW 846 8270
Diethylphthalate	ND	mg/kg	0.33	SW 846 8270
4-chlorophenyl phenyl ether	ND	mg/kg	0.33	SW 846 8270
Fluorene	ND	mg/kg	0.33	SW 846 8270
n-Nitrosodiphenylamine	ND	mg/kg	0.33	SW 846 8270
1,2-Diphenylhydrazine	ND	mg/kg	0.33	SW 846 8270
4-Bromophenylphenyl ether	ND	mg/kg	0.33	SW 846 8270
Hexachlorobenzene	ND	mg/kg	0.33	SW 846 8270
Phenanthrene	ND	mg/kg	0.33	SW 846 8270
1,3-Dichlorobenzene	ND	mg/kg	0.33	SW 846 8270
Anthracene	ND	mg/kg	0.33	SW 846 8270
di-n-Butylphthalate	ND	mg/kg	0.33	SW 846 8270
Fluoranthene	ND	mg/kg	0.33	SW 846 8270
Benzidine	ND	mg/kg	40	SW 846 8270
Pyrene	ND	mg/kg	0.33	SW 846 8270
Butylbenzylphthalate	ND	mg/kg	0.33	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: DTT

PROJECT ID: 81PH

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
3,3'-Dichlorobenzidine	ND	mg/kg	0.33	SW 846 8270
Benzo(a)anthracene	ND	mg/kg	0.33	SW 846 8270
bis(2-ethylhexyl)phthalate	ND	mg/kg	0.33	SW 846 8270
Chrysene	ND	mg/kg	0.33	SW 846 8270
1,4-Dichlorobenzene	ND	mg/kg	0.33	SW 846 8270
di-n-Octylphthalate	ND	mg/kg	0.33	SW 846 8270
Benzo(b)fluoranthene	ND	mg/kg	0.33	SW 846 8270
Benzo(k)fluoranthene	ND	mg/kg	0.33	SW 846 8270
Benzo(a)pyrene	ND	mg/kg	0.33	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.33	SW 846 8270
Dibenzo(a,h)anthracene	ND	mg/kg	0.33	SW 846 8270
Benzo(g,h,i)perylene	ND	mg/kg	0.33	SW 846 8270
1,2-Dichlorobenzene	ND	mg/kg	0.33	SW 846 8270
bis(2-chloroisopropyl)ether	ND	mg/kg	0.33	SW 846 8270
n-Nitrosodi-n-propylamine	ND	mg/kg	0.33	SW 846 8270
Hexachloroethane	ND	mg/kg	0.33	SW 846 8270
Nitrobenzene	ND	mg/kg	0.33	SW 846 8270
Phenol	ND	mg/kg	0.33	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.33	SW 846 8270
Pentachlorophenol	ND	mg/kg	0.33	SW 846 8270
2-Nitrophenol	ND	mg/kg	0.33	SW 846 8270
2,4-Dimethylphenol	ND	mg/kg	0.33	SW 846 8270
2,4-Dichlorophenol	ND	mg/kg	0.33	SW 846 8270
2-Chlorophenol	ND	mg/kg	0.33	SW 846 8270
4-Chloro-3-methylphenol	ND	mg/kg	0.33	SW 846 8270
2,4,6-Trichlorophenol	ND	mg/kg	0.33	SW 846 8270
2,4-Dinitrophenol	ND	mg/kg	0.33	SW 846 8270
4-Nitrophenol	ND	mg/kg	0.33	SW 846 8270

CLIENT: SKW Alloys

AES CLIENT ID: DTT
 PROJECT ID: 81PH

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
n-nitrosodimethylamine	SW 846 8270	---	Independent Standard	86
Isophorone	SW 846 8270	---	Independent Standard	86
bis(2-chloroethoxy)methane	SW 846 8270	---	Independent Standard	78
1,2,4-Trichlorobenzene	SW 846 8270	---	Independent Standard	77
Naphthalene	SW 846 8270	---	Independent Standard	79
Hexachlorobutadiene	SW 846 8270	---	Independent Standard	79
Hexachlorocyclopentadiene	SW 846 8270	---	Independent Standard	77
2-Chloronaphthalene	SW 846 8270	---	Independent Standard	90
Dimethylphthalate	SW 846 8270	---	Independent Standard	78
2,6-Dinitrotoluene	SW 846 8270	---	Independent Standard	84
Acenaphthylene	SW 846 8270	---	Independent Standard	83
bis(2-chloroethyl)ether	SW 846 8270	---	Independent Standard	80
Acenaphthene	SW 846 8270	---	Independent Standard	87
2,4-Dinitrotoluene	SW 846 8270	---	Independent Standard	83
Diethylphthalate	SW 846 8270	---	Independent Standard	81
4-chlorophenyl phenyl ether	SW 846 8270	---	Independent Standard	77
Fluorene	SW 846 8270	---	Independent Standard	75
n-Nitrosodiphenylamine	SW 846 8270	---	Independent Standard	82
1,2-Diphenylhydrazine	SW 846 8270	---	Independent Standard	39
4-Bromophenylphenyl ether	SW 846 8270	---	Independent Standard	77
Hexachlorobenzene	SW 846 8270	---	Independent Standard	82
Phenanthrene	SW 846 8270	---	Independent Standard	83
1,3-Dichlorobenzene	SW 846 8270	---	Independent Standard	75
Anthracene	SW 846 8270	---	Independent Standard	80
di-n-Butylphthalate	SW 846 8270	---	Independent Standard	76
Fluoranthene	SW 846 8270	---	Independent Standard	81
Pyrene	SW 846 8270	---	Independent Standard	82
Butylbenzylphthalate	SW 846 8270	---	Independent Standard	88
Benzo(a)anthracene	SW 846 8270	---	Independent Standard	83

Advanced Environmental Services, Inc.
 Sample Traceability Report

Project Identification DTI BIPH

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
BIPH-1		-	-	3550 8270	5-4-98	BA	8270	5-12-98	UB
-2		-	-						
-3		-	-						
-4		-	-						
-5		-	-						
-6		-	-						
-7		-	-					5-13-98	

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

Advanced Environmental Services, Inc.
Sample Traceability Report

Project Identification DTT 81PH

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
81PH-89	511198	-	-	3050	5/4/98	R.P	6010		
81PH-10	511198	-	-	93	5/4/98	RP	2007		

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology

CHAIN OF CUSTODY RECORD



(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

CUSTOMER NAME: Skid Metals - A1krya

PROJECT NAME: Winter Road

SAMPLER'S SIGNATURE: [Signature]

PROJECT I.D.#: 81PH 2-32696

JOB CODE: D11

CONTAINER CLASSIFICATION	
UNPRESERVED	TOTAL
HNO ₃	
NaOH	
HCL	
VIAL (PRES.)	
OTHER VIAL (UNPRES.)	

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	PARAMETERS / REMARKS
4.30	8:00	154 A:B 30"	X	Soil	8021, 8270, 8270
	9:20	266 A:B 30"	X		8021, 8270, 8270
5.1	10:45	281 B:C 6-16"	X		8021, 8270
	11"	281 E:F 21"	X		8021, 8270
	11:23	265 A: 8-16"	X		8021, 8270
	11:58	267 A: 8-16"	X		8021, 8270
	12:20	251 A:B 24"	X		8021, 8270
4.30	8:14	155 12-16"	X		Chromium
	10:20	181 9'	X		Chromium
	11:05	Field Equipment	X	water	Chromium

TOTAL NUMBER OF CONTAINERS 15

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <u>[Signature]</u>	DATE <u>5/1/98</u>	TIME <u>14:11</u>	RECEIVED BY: <u>[Signature]</u>
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

SKW ALLOYS

**ANALYSIS FOR VOLATILES AND
PETROLEUM PRODUCTS**

WITMER ROAD SITE - 2.3269.6

SAMPLE DATES: 30 APRIL - 1 MAY 1998

Prepared By:

ADVANCED
ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

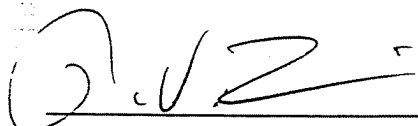
May 5, 1998
REF: DTT281PG/OR
Lab ID No. 10233

QA/QC VERIFICATION FOR PROJECT ID 81PG

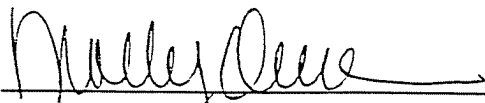
The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.



Organic Chemistry



Quality Control



Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted. Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested
D - Indicates a dilution was required

CLIENT: SKW Alloys
 SAMPLE ID: 154 A & B 30"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-1

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 154 A & B 30"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-1

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	ND	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	ND	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	ND	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021
Kerosene	ND	mg/kg	10	DOH 310-13 Modified *
Fuel Oil #2	ND	mg/kg	10	DOH 310-13 Modified

* Suspected petroleum product present, but unable to be quantified due to lack of matchable standard.

CLIENT: SKW Alloys
 SAMPLE ID: 154 A & B 30"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-1

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Fuel Oil #4	ND	mg/kg	10	DOH 310-13 Modified
Fuel Oil #6	ND	mg/kg	10	DOH 310-13 Modified
Diesel	ND	mg/kg	10	DOH 310-13 Modified
Gasoline	ND	mg/kg	---	DOH 310-13 Modified
Lubricating Oil	ND	mg/kg	---	DOH 310-13 Modified

CLIENT: SKW Alloys
 SAMPLE ID: 266 A & B 20"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-2

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	539	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	1350	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 266 A & B 20"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-2

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	2410	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	580	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	1770	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	2560	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	418	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021
Kerosene	ND	mg/kg	10	DOH 310-13 Modified *
Fuel Oil #2	ND	mg/kg	10	DOH 310-13 Modified

* Suspected petroleum product present, but unable to be quantified due to lack of matchable standard.

CLIENT: SKW Alloys
 SAMPLE ID: 266 A & B 20"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 04/30/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-2

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Fuel Oil #4	ND	mg/kg	10	DOH 310-13 Modified
Fuel Oil #6	ND	mg/kg	10	DOH 310-13 Modified
Diesel	ND	mg/kg	10	DOH 310-13 Modified
Gasoline	ND	mg/kg	---	DOH 310-13 Modified
Lubricating Oil	ND	mg/kg	---	DOH 310-13 Modified

CLIENT: SKW Alloys
 SAMPLE ID: 281 B & C 6-16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-3

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	936	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	580	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	835	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	404	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	548	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 281 B & C 6-16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-3

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	1270	µg/kg	100	SW 846 8021
Isopropylbenzene	743	µg/kg	100	SW 846 8021
p-Isopropyltoluene	404	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	2590	µg/kg	100	SW 846 8021
Styrene	366	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	1530	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	2400	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	529	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 281 E & F 21"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-4

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 281 E & F 21"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-4

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	ND	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	ND	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	1040	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	ND	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 265 A 16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-5

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 265 A 16"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-5

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	ND	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	ND	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	ND	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 267 A 6"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-6

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	540	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 267 A 6"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-6

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	334	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	ND	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	2.00	SW 846 8021
Tetrachloroethene	ND	µg/kg	2.00	SW 846 8021
Toluene	ND	µg/kg	2.00	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,2,4-Trichlorobenzene	2190	µg/kg	2.00	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	ND	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 251 A & B 24"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-7

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	ND	µg/kg	100	SW 846 8021
sec-Butylbenzene	ND	µg/kg	100	SW 846 8021
tert-Butylbenzene	ND	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: 251 A & B 24"
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: Soil

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PG-7

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	ND	µg/kg	100	SW 846 8021
Hexachlorobutadiene	ND	µg/kg	100	SW 846 8021
Isopropylbenzene	ND	µg/kg	100	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	100	SW 846 8021
Methylene chloride	ND	µg/kg	100	SW 846 8021
n-Propylbenzene	ND	µg/kg	100	SW 846 8021
Styrene	ND	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	362	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
o-Xylene	ND	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: DTT

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	2.00	SW 846 8021
Bromobenzene	ND	µg/kg	2.00	SW 846 8021
Bromochloromethane	ND	µg/kg	2.00	SW 846 8021
Bromomethane	ND	µg/kg	2.00	SW 846 8021
n-Butylbenzene	ND	µg/kg	2.00	SW 846 8021
sec-Butylbenzene	ND	µg/kg	2.00	SW 846 8021
tert-Butylbenzene	ND	µg/kg	2.00	SW 846 8021
Carbon tetrachloride	ND	µg/kg	2.00	SW 846 8021
Chlorobenzene	ND	µg/kg	2.00	SW 846 8021
Chloroethane	ND	µg/kg	2.00	SW 846 8021
Chloroform	ND	µg/kg	2.00	SW 846 8021
Chloromethane	ND	µg/kg	2.00	SW 846 8021
2-Chlorotoluene	ND	µg/kg	2.00	SW 846 8021
4-Chlorotoluene	ND	µg/kg	2.00	SW 846 8021
Dibromomethane	ND	µg/kg	2.00	SW 846 8021
1,2-Dichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	2.00	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	2.00	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	2.00	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	2.00	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	2.00	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	2.00	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	2.00	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	2.00	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	2.00	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	2.00	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	2.00	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	2.00	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: DTT

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	2.00	SW 846 8021
Ethylbenzene	ND	µg/kg	2.00	SW 846 8021
Hexachlorobutadiene	ND	µg/kg	2.00	SW 846 8021
Isopropylbenzene	ND	µg/kg	2.00	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	2.00	SW 846 8021
Methylene chloride	ND	µg/kg	2.00	SW 846 8021
n-Propylbenzene	ND	µg/kg	2.00	SW 846 8021
Styrene	ND	µg/kg	2.00	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	2.00	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	2.00	SW 846 8021
Tetrachloroethene	ND	µg/kg	2.00	SW 846 8021
Toluene	ND	µg/kg	2.00	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,2,4-Trichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	2.00	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	2.00	SW 846 8021
Trichloroethene	ND	µg/kg	2.00	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	2.00	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	2.00	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	2.00	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	2.00	SW 846 8021
m-Xylene	ND	µg/kg	2.00	SW 846 8021
p-Xylene	ND	µg/kg	2.00	SW 846 8021
o-Xylene	ND	µg/kg	2.00	SW 846 8021
Vinyl Chloride	ND	µg/kg	2.00	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	2.00	SW 846 8021
Kerosene	ND	mg/kg	10	DOH 310-13 Modified *
Fuel Oil #2	ND	mg/kg	10	DOH 310-13 Modified

* Suspected petroleum product present, but unable to be quantified due to lack of matchable standard.

CLIENT: SKW Alloys
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: DTT

PROJECT ID: 81PG

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Fuel Oil #4	ND	mg/kg	10	DOH 310-13 Modified
Fuel Oil #6	ND	mg/kg	10	DOH 310-13 Modified
Diesel	ND	mg/kg	10	DOH 310-13 Modified
Gasoline	ND	mg/kg	---	DOH 310-13 Modified
Lubricating Oil	ND	mg/kg	---	DOH 310-13 Modified

CLIENT: SKW Alloys

AES CLIENT ID: DTT
 PROJECT ID: 81PG

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Benzene	SW 846 8021	---	Independent Standard	90
Bromobenzene	SW 846 8021	---	Independent Standard	104
Bromochloromethane	SW 846 8021	---	Independent Standard	107
Bromomethane	SW 846 8021	---	Independent Standard	96
n-Butylbenzene	SW 846 8021	---	Independent Standard	103
sec-Butylbenzene	SW 846 8021	---	Independent Standard	103
tert-Butylbenzene	SW 846 8021	---	Independent Standard	100
Carbon tetrachloride	SW 846 8021	---	Independent Standard	116
Chlorobenzene	SW 846 8021	---	Independent Standard	89
Chloroethane	SW 846 8021	---	Independent Standard	100
Chloroform	SW 846 8021	---	Independent Standard	116
Chloromethane	SW 846 8021	---	Independent Standard	110
2-Chlorotoluene	SW 846 8021	---	Independent Standard	106
4-Chlorotoluene	SW 846 8021	---	Independent Standard	95
Dibromomethane	SW 846 8021	---	Independent Standard	110
1,2-Dichlorobenzene	SW 846 8021	---	Independent Standard	114
1,3-Dichlorobenzene	SW 846 8021	---	Independent Standard	100
1,4-Dichlorobenzene	SW 846 8021	---	Independent Standard	93
Dichlorodifluoromethane	SW 846 8021	---	Independent Standard	98
1,1-Dichloroethane	SW 846 8021	---	Independent Standard	115
1,2-Dichloroethane	SW 846 8021	---	Independent Standard	110
1,1-Dichloroethene	SW 846 8021	---	Independent Standard	120
cis-1,2-Dichloroethene	SW 846 8021	---	Independent Standard	88
trans-1,2-Dichloroethene	SW 846 8021	---	Independent Standard	120
1,2-Dichloropropane	SW 846 8021	---	Independent Standard	115
1,3-Dichloropropane	SW 846 8021	---	Independent Standard	125
2,2-Dichloropropane	SW 846 8021	---	Independent Standard	120
1,1-Dichloropropene	SW 846 8021	---	Independent Standard	115
cis-1,3-Dichloropropene	SW 846 8021	---	Independent Standard	110

CLIENT: SKW Alloys

AES CLIENT ID: DTT
 PROJECT ID: 81PG

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
trans-1,3-Dichloropropene	SW 846 8021	---	Independent Standard	120
Ethylbenzene	SW 846 8021	---	Independent Standard	88
Hexachlorobutadiene	SW 846 8021	---	Independent Standard	87
Isopropylbenzene	SW 846 8021	---	Independent Standard	100
p-Isopropyltoluene	SW 846 8021	---	Independent Standard	103
Methylene chloride	SW 846 8021	---	Independent Standard	120
n-Propylbenzene	SW 846 8021	---	Independent Standard	89
Styrene	SW 846 8021	---	Independent Standard	95
1,1,1,2-Tetrachloroethane	SW 846 8021	---	Independent Standard	120
1,1,2,2-Tetrachloroethane	SW 846 8021	---	Independent Standard	118
Tetrachloroethene	SW 846 8021	---	Independent Standard	111
Toluene	SW 846 8021	---	Independent Standard	101
1,2,3-Trichlorobenzene	SW 846 8021	---	Independent Standard	103
1,2,4-Trichlorobenzene	SW 846 8021	---	Independent Standard	93
1,1,1-Trichloroethane	SW 846 8021	---	Independent Standard	114
1,1,2-Trichloroethane	SW 846 8021	---	Independent Standard	117
Trichloroethene	SW 846 8021	---	Independent Standard	117
Trichlorofluoromethane	SW 846 8021	---	Independent Standard	125
1,2,3-Trichloropropane	SW 846 8021	---	Independent Standard	98
1,2,4-Trimethylbenzene	SW 846 8021	---	Independent Standard	100
1,3,5-Trimethylbenzene	SW 846 8021	---	Independent Standard	101
m-Xylene	SW 846 8021	---	Independent Standard	95
p-Xylene	SW 846 8021	---	Independent Standard	95
o-Xylene	SW 846 8021	---	Independent Standard	90
Vinyl Chloride	SW 846 8021	---	Independent Standard	110
Methyl t-butyl ether (MTBE)	SW 846 8021	---	Independent Standard	100

Advanced Environmental Services, Inc.
 Sample Traceability Report

Project Identification DIT 81PG

Sample #	Sample Collection	Group #	Run #	Prep Lab (Method)	Prep Date	Analysis	Analytical Methodology	Analysis Date	Agency
81PG-1		-	-	310-13 Moist.	5-4-98	BA	30-13 Moist	5-4-98	UB
1-2		-	-	d	1	1	1	1	1

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology

CHAIN OF CUSTODY RECORD



ENVIRONMENTAL SERVICES, INC.
2186 Liberty Drive
Niagara Falls, NY 14304

(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

CUSTOMER NAME: SKW Metals & Alloys, Inc.

PROJECT NAME: Witney Road Site

PROJECT I.D.#: 232696

SAMPLER'S SIGNATURE: [Signature]

JOB CODE: NR 8105

CONTAINER CLASSIFICATION		PARAMETERS / REMARKS
UNPRESERVED	OTHER	
HNO ₃ , H ₂ SO ₄ , HCL, NaOH	VIAL (PRES.), VIAL (UNPRES.)	Total Chromium VOC's (TCL) 8260 8270, 8271, 8272 Semi VOC's (TCL) 8270 Total Chromium
X		

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	OTHER	TOTAL
4/28/98	09:22	A071 44-46"	X	Soil		1
	09:48	A031 4-6"				1
	10:55	A055				1
	11:21	A082 24-30"				1
	13:45	A012 12-14"				1
	14:50	A064 12-17"				1
	15:22	A048 28-30"				1
	15:27	A048 12-24"				1
	15:49	A048 (Soil Pile A)				1
	15:49	A048 (Soil Pile B)				1
4/29/98	09:12	O33 8-12"	X			1
	09:36	O33 36"				1
4/29/98	11:13	114 16-21"				1
	14:31	270 36-48"				1
	10:30	092 20"				1
TOTAL NUMBER OF CONTAINERS						15

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>4/29/98</u>	TIME: <u>17:40</u>	RECEIVED BY: <u>[Signature]</u>
2. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____

Advanced Environmental Services, Inc.
 Sample Traceability Report

Project Identification DIT 81P5

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
81P5-1	4/28/98						3021	4/30/98	DIC

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

Advanced Environmental Services, Inc.
Sample Traceability Report

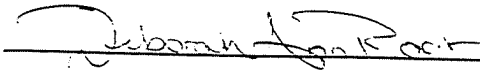
Project Identification DI 81P5

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
81P5-1	4-28-98	-	-	31013 MUI	4-30-98	BA	31013 MUI	4-30-98	UB

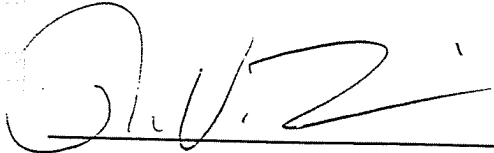
Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

QA/QC VERIFICATION FOR PROJECT ID 81P5


The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.



Organic Chemistry



Quality Control



Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted. Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

- BQL - Below Quantifiable Limits
- ND - None Detected
- NG - No Growth of Colonies
- NR - Not Requested
- D - Indicates a dilution was required

CLIENT: SKW Alloys
 SAMPLE ID: A048 SOIL PILE A
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 04/28/98
 SAMPLE TYPE: SO

AES CLIENT ID: DTT
 AES SAMPLE ID: 81P5-1

PROJECT ID: 81P5

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	100	SW 846 8021
Bromobenzene	ND	µg/kg	100	SW 846 8021
Bromochloromethane	ND	µg/kg	100	SW 846 8021
Bromomethane	ND	µg/kg	100	SW 846 8021
n-Butylbenzene	171400	µg/kg	100	SW 846 8021
sec-Butylbenzene	117600	µg/kg	100	SW 846 8021
tert-Butylbenzene	42500	µg/kg	100	SW 846 8021
Carbon tetrachloride	ND	µg/kg	100	SW 846 8021
Chlorobenzene	ND	µg/kg	100	SW 846 8021
Chloroethane	ND	µg/kg	100	SW 846 8021
Chloroform	ND	µg/kg	100	SW 846 8021
Chloromethane	ND	µg/kg	100	SW 846 8021
2-Chlorotoluene	ND	µg/kg	100	SW 846 8021
4-Chlorotoluene	ND	µg/kg	100	SW 846 8021
Dibromomethane	ND	µg/kg	100	SW 846 8021
1,2-Dichlorobenzene	267000	µg/kg	100	SW 846 8021
1,3-Dichlorobenzene	49950	µg/kg	100	SW 846 8021
1,4-Dichlorobenzene	64950	µg/kg	100	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	100	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	100	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	100	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	100	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	100	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	100	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021

CLIENT: SKW Alloys SAMPLE ID: A048 SOIL PILE A COLLECTION METHOD: GRAB COLLECTION DATE(S): 04/28/98 SAMPLE TYPE: SO	AES CLIENT ID: DTT AES SAMPLE ID: 81P5-1 PROJECT ID: 81P5
---	---

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	100	SW 846 8021
Ethylbenzene	25500	µg/kg	100	SW 846 8021
Hexachlorobutadiene	185550	µg/kg	100	SW 846 8021
Isopropylbenzene	21650	µg/kg	100	SW 846 8021
p-Isopropyltoluene	49950	µg/kg	100	SW 846 8021
Methylene chloride	21450	µg/kg	100	SW 846 8021
n-Propylbenzene	67050	µg/kg	100	SW 846 8021
Styrene	43850	µg/kg	100	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	100	SW 846 8021
Tetrachloroethene	ND	µg/kg	100	SW 846 8021
Toluene	ND	µg/kg	100	SW 846 8021
1,2,3-Trichlorobenzene	245350	µg/kg	100	SW 846 8021
1,2,4-Trichlorobenzene	189550	µg/kg	100	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	100	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	100	SW 846 8021
Trichloroethene	ND	µg/kg	100	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	100	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	100	SW 846 8021
1,2,4-Trimethylbenzene	42550	µg/kg	100	SW 846 8021
1,3,5-Trimethylbenzene	41800	µg/kg	100	SW 846 8021
m-Xylene	ND	µg/kg	100	SW 846 8021
p-Xylene	ND	µg/kg	100	SW 846 8021
m/p-Xylene (++)	ND	µg/kg	100	SW 846 8021
o-Xylene	ND	µg/kg	100	SW 846 8021
Vinyl Chloride	ND	µg/kg	100	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	100	SW 846 8021
Kerosene	ND	mg/kg	100	DOH 310-13 Modified
Fuel Oil #2	ND	mg/kg	100	DOH 310-13 Modified

CLIENT: SKW Alloys
 SAMPLE ID: A048 SOIL PILE A
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 04/28/98
 SAMPLE TYPE: SO

AES CLIENT ID: DTT
 AES SAMPLE ID: 81P5-1

PROJECT ID: 81P5

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Fuel Oil #4	ND	mg/kg	100	DOH 310-13 Modified
Fuel Oil #6	ND	mg/kg	100	DOH 310-13 Modified
Diesel	13 D	mg/kg	100	DOH 310-13 Modified
Gasoline	ND	mg/kg	---	DOH 310-13 Modified
Lubricating Oil	ND	mg/kg	---	DOH 310-13 Modified

CLIENT: SKW Alloys
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: DTT

PROJECT ID: 81P5

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	2.00	SW 846 8021
Bromobenzene	ND	µg/kg	2.00	SW 846 8021
Bromochloromethane	ND	µg/kg	2.00	SW 846 8021
Bromomethane	ND	µg/kg	2.00	SW 846 8021
n-Butylbenzene	ND	µg/kg	2.00	SW 846 8021
sec-Butylbenzene	ND	µg/kg	2.00	SW 846 8021
tert-Butylbenzene	ND	µg/kg	2.00	SW 846 8021
Carbon tetrachloride	ND	µg/kg	2.00	SW 846 8021
Chlorobenzene	ND	µg/kg	2.00	SW 846 8021
Chloroethane	ND	µg/kg	2.00	SW 846 8021
Chloroform	ND	µg/kg	2.00	SW 846 8021
Chloromethane	ND	µg/kg	2.00	SW 846 8021
2-Chlorotoluene	ND	µg/kg	2.00	SW 846 8021
4-Chlorotoluene	ND	µg/kg	2.00	SW 846 8021
Dibromomethane	ND	µg/kg	2.00	SW 846 8021
1,2-Dichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,3-Dichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,4-Dichlorobenzene	ND	µg/kg	2.00	SW 846 8021
Dichlorodifluoromethane	ND	µg/kg	2.00	SW 846 8021
1,1-Dichloroethane	ND	µg/kg	2.00	SW 846 8021
1,2-Dichloroethane	ND	µg/kg	2.00	SW 846 8021
1,1-Dichloroethene	ND	µg/kg	2.00	SW 846 8021
cis-1,2-Dichloroethene	ND	µg/kg	2.00	SW 846 8021
trans-1,2-Dichloroethene	ND	µg/kg	2.00	SW 846 8021
1,2-Dichloropropane	ND	µg/kg	2.00	SW 846 8021
1,3-Dichloropropane	ND	µg/kg	2.00	SW 846 8021
2,2-Dichloropropane	ND	µg/kg	2.00	SW 846 8021
1,1-Dichloropropene	ND	µg/kg	2.00	SW 846 8021
cis-1,3-Dichloropropene	ND	µg/kg	2.00	SW 846 8021

CLIENT: SKW Alloys
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: DTT

PROJECT ID: 81P5

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	ND	µg/kg	2.00	SW 846 8021
Ethylbenzene	ND	µg/kg	2.00	SW 846 8021
Hexachlorobutadiene	ND	µg/kg	2.00	SW 846 8021
Isopropylbenzene	ND	µg/kg	2.00	SW 846 8021
p-Isopropyltoluene	ND	µg/kg	2.00	SW 846 8021
Methylene chloride	ND	µg/kg	2.00	SW 846 8021
n-Propylbenzene	ND	µg/kg	2.00	SW 846 8021
Styrene	ND	µg/kg	2.00	SW 846 8021
1,1,1,2-Tetrachloroethane	ND	µg/kg	2.00	SW 846 8021
1,1,2,2-Tetrachloroethane	ND	µg/kg	2.00	SW 846 8021
Tetrachloroethene	ND	µg/kg	2.00	SW 846 8021
Toluene	ND	µg/kg	2.00	SW 846 8021
1,2,3-Trichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,2,4-Trichlorobenzene	ND	µg/kg	2.00	SW 846 8021
1,1,1-Trichloroethane	ND	µg/kg	2.00	SW 846 8021
1,1,2-Trichloroethane	ND	µg/kg	2.00	SW 846 8021
Trichloroethene	ND	µg/kg	2.00	SW 846 8021
Trichlorofluoromethane	ND	µg/kg	2.00	SW 846 8021
1,2,3-Trichloropropane	ND	µg/kg	2.00	SW 846 8021
1,2,4-Trimethylbenzene	ND	µg/kg	2.00	SW 846 8021
1,3,5-Trimethylbenzene	ND	µg/kg	2.00	SW 846 8021
m-Xylene	ND	µg/kg	2.00	SW 846 8021
p-Xylene	ND	µg/kg	2.00	SW 846 8021
m/p-Xylene	ND	µg/kg	2.00	SW 846 8021
o-Xylene	ND	µg/kg	2.00	SW 846 8021
Vinyl Chloride	ND	µg/kg	2.00	SW 846 8021
Methyl t-butyl ether (MTBE)	ND	µg/kg	2.00	SW 846 8021
Kerosene	ND	mg/kg	10	DOH 310-13 Modified
Fuel Oil #2	ND	mg/kg	10	DOH 310-13 Modified

CLIENT: SKW Alloys SAMPLE ID: METHOD BLANK COLLECTION METHOD: COLLECTION DATE(S): SAMPLE TYPE:	AES CLIENT ID: DTT PROJECT ID: 81P5
--	--

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Fuel Oil #4	ND	mg/kg	10	DOH 310-13 Modified
Fuel Oil #6	ND	mg/kg	10	DOH 310-13 Modified
Diesel	ND	mg/kg	10	DOH 310-13 Modified
Gasoline	ND	mg/kg	---	DOH 310-13 Modified
Lubricating Oil	ND	mg/kg	---	DOH 310-13 Modified

CLIENT: SKW Alloys

AES CLIENT ID: DTT
 PROJECT ID: 81P5

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Benzene	SW 846 8021	---	Independent Standard	88
Bromobenzene	SW 846 8021	---	Independent Standard	113
Bromochloromethane	SW 846 8021	---	Independent Standard	104
Bromomethane	SW 846 8021	---	Independent Standard	95
n-Butylbenzene	SW 846 8021	---	Independent Standard	112
sec-Butylbenzene	SW 846 8021	---	Independent Standard	87
tert-Butylbenzene	SW 846 8021	---	Independent Standard	86
Carbon tetrachloride	SW 846 8021	---	Independent Standard	84
Chlorobenzene	SW 846 8021	---	Independent Standard	90
Chloroethane	SW 846 8021	---	Independent Standard	95
Chloroform	SW 846 8021	---	Independent Standard	98
Chloromethane	SW 846 8021	---	Independent Standard	100
2-Chlorotoluene	SW 846 8021	---	Independent Standard	86
4-Chlorotoluene	SW 846 8021	---	Independent Standard	97
Dibromomethane	SW 846 8021	---	Independent Standard	117
1,2-Dichlorobenzene	SW 846 8021	---	Independent Standard	125
1,3-Dichlorobenzene	SW 846 8021	---	Independent Standard	112
1,4-Dichlorobenzene	SW 846 8021	---	Independent Standard	123
Dichlorodifluoromethane	SW 846 8021	---	Independent Standard	113
1,1-Dichloroethane	SW 846 8021	---	Independent Standard	102
1,2-Dichloroethane	SW 846 8021	---	Independent Standard	111
1,1-Dichloroethene	SW 846 8021	---	Independent Standard	104
cis-1,2-Dichloroethene	SW 846 8021	---	Independent Standard	111
trans-1,2-Dichloroethene	SW 846 8021	---	Independent Standard	111
1,2-Dichloropropane	SW 846 8021	---	Independent Standard	101
1,3-Dichloropropane	SW 846 8021	---	Independent Standard	125
2,2-Dichloropropane	SW 846 8021	---	Independent Standard	98
1,1-Dichloropropene	SW 846 8021	---	Independent Standard	92
cis-1,3-Dichloropropene	SW 846 8021	---	Independent Standard	112

CLIENT: SKW Alloys	AES CLIENT ID: DTT PROJECT ID: 81P5
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ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
trans-1,3-Dichloropropene	SW 846 8021	---	Independent Standard	133
Ethylbenzene	SW 846 8021	---	Independent Standard	79
Hexachlorobutadiene	SW 846 8021	---	Independent Standard	89
Isopropylbenzene	SW 846 8021	---	Independent Standard	87
p-Isopropyltoluene	SW 846 8021	---	Independent Standard	79
Methylene chloride	SW 846 8021	---	Independent Standard	116
n-Propylbenzene	SW 846 8021	---	Independent Standard	88
Styrene	SW 846 8021	---	Independent Standard	105
1,1,1,2-Tetrachloroethane	SW 846 8021	---	Independent Standard	114
1,1,2,2-Tetrachloroethane	SW 846 8021	---	Independent Standard	124
Tetrachloroethene	SW 846 8021	---	Independent Standard	90
Toluene	SW 846 8021	---	Independent Standard	80
1,2,3-Trichlorobenzene	SW 846 8021	---	Independent Standard	113
1,2,4-Trichlorobenzene	SW 846 8021	---	Independent Standard	112
1,1,1-Trichloroethane	SW 846 8021	---	Independent Standard	103
1,1,2-Trichloroethane	SW 846 8021	---	Independent Standard	121
Trichloroethene	SW 846 8021	---	Independent Standard	102
Trichlorofluoromethane	SW 846 8021	---	Independent Standard	86
1,2,3-Trichloropropane	SW 846 8021	---	Independent Standard	108
1,2,4-Trimethylbenzene	SW 846 8021	---	Independent Standard	86
1,3,5-Trimethylbenzene	SW 846 8021	---	Independent Standard	76
m-Xylene	SW 846 8021	---	Independent Standard	89
p-Xylene	SW 846 8021	---	Independent Standard	89
m/p-Xylene	SW 846 8021	---	Independent Standard	89
o-Xylene	SW 846 8021	---	Independent Standard	101
Vinyl Chloride	SW 846 8021	---	Independent Standard	103
Methyl t-butyl ether (MTBE)	SW 846 8021	---	Independent Standard	98

~~GD~~
TT
SLIP

Trish
See me
Re all
data.

SKW ALLOYS

SKW METALS & ALLOYS

SOIL ANALYSIS FOR VOLATILES & PET. PRODS

WITMER ROAD SITE

SAMPLE DATE: APRIL 28, 1998

Prepared By:

ADVANCED
ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

May 1, 1998
REF: DTT281P5
Lab ID No. 10233

CHAIN OF CUSTODY RECORD



ENVIRONMENTAL SERVICES, INC.
 2186 Liberty Drive
 Niagara Falls, NY 14304
 (716) 283-3120
 (800) 791-3120
 Fax (716) 283-4727

CUSTOMER NAME: Silver Metals - Aikyo

PROJECT NAME: Winter Road

SAMPLER'S SIGNATURE: *[Signature]*

PROJECT I.D.#: 232696

JOB CODE: DTT

CONTAINER CLASSIFICATION	
UNPRESERVED	VIAL (PRES.)
	VIAL (UNPRES.)
	OTHER
	TOTAL

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	HNO ₃	H ₂ SO ₄	HCL	NaOH	VIAL (PRES.)	VIAL (UNPRES.)	OTHER	TOTAL	PARAMETERS / REMARKS
4.30	8:00	154 A:B 30"	X	soil								2	8021, 8270, perprod
	9:20	266 A:B 20"	X									2	8021, 8270, perprod
5.1	10:45	281 B:C 6-16"	X									2	8021, 8270
	11"	281 E:F 21"	X									2	8021, 8270
	11:23	265 A: 8-16"	X									1	8021, 8270
	11:58	267 A: 8-16"	X									1	8021, 8270
	12:20	251 A:B 24"	X									2	8021, 8270
4:30	8:14	155 12-16"	X									2	8021, 8270
	10:30	181 9'	X									1	chromium
	11:05	Field Equipment	X	water								1	chromium
													chromium
													chromium

TOTAL NUMBER OF CONTAINERS 15

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <u><i>[Signature]</i></u>	DATE: <u>5/1/98</u>	TIME: <u>14:11</u>	RECEIVED BY: <u><i>[Signature]</i></u>
2. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____

Advanced Environmental Services, Inc.
Sample Traceability Report

Project Identification DIT2-BIRG

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
DIT2-BIRG-1	4/30/98						8421	5/1/98	CP
-2	4/30/98								
-3	5/1/98								
-4									
-5									
-6									
-7									

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

SKW ALLOYS

SKW METALS & ALLOYS

SOIL ANALYSIS FOR SEMI-VOLATILE (8270)

WITMER ROAD SITE

SAMPLE DATE: APRIL 28, 1998

Prepared By:

ADVANCED
ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

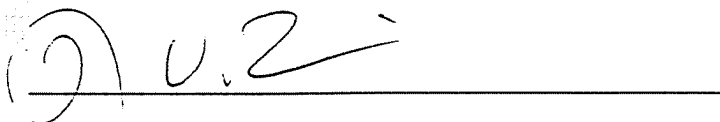
May 12, 1998
REF: DTT281P6
Lab ID No. 10233

QA/QC VERIFICATION FOR PROJECT ID 81P6

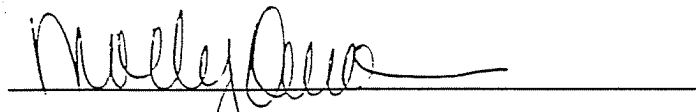
The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.



Organic Chemistry



Quality Control



Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted. Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested
D - Indicates a dilution was required

CLIENT: SKW Alloys
 SAMPLE ID: A048 SOIL PILE B
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 04/28/98
 SAMPLE TYPE: SOIL

AES CLIENT ID: DTT
 AES SAMPLE ID: 81P6-1

PROJECT ID: 81P6

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
n-nitrosodimethylamine	ND	mg/kg	1.0	SW 846 8270
Isophorone	ND	mg/kg	1.0	SW 846 8270
bis(2-chloroethoxy)methane	ND	mg/kg	1.0	SW 846 8270
1,2,4-Trichlorobenzene	ND	mg/kg	1.0	SW 846 8270
Naphthalene	ND	mg/kg	1.0	SW 846 8270
Hexachlorobutadiene	ND	mg/kg	1.0	SW 846 8270
Hexachlorocyclopentadiene	ND	mg/kg	1.0	SW 846 8270
2-Chloronaphthalene	ND	mg/kg	1.0	SW 846 8270
Dimethylphthalate	ND	mg/kg	1.0	SW 846 8270
2,6-Dinitrotoluene	ND	mg/kg	1.0	SW 846 8270
Acenaphthylene	ND	mg/kg	1.0	SW 846 8270
bis(2-chloroethyl)ether	ND	mg/kg	1.0	SW 846 8270
Acenaphthene	ND	mg/kg	1.0	SW 846 8270
2,4-Dinitrotoluene	ND	mg/kg	1.0	SW 846 8270
Diethylphthalate	ND	mg/kg	1.0	SW 846 8270
4-chlorophenyl phenyl ether	ND	mg/kg	1.0	SW 846 8270
Fluorene	ND	mg/kg	1.0	SW 846 8270
n-Nitrosodiphenylamine	ND	mg/kg	1.0	SW 846 8270
1,2-Diphenylhydrazine	ND	mg/kg	1.0	SW 846 8270
4-Bromophenylphenyl ether	ND	mg/kg	1.0	SW 846 8270
Hexachlorobenzene	ND	mg/kg	1.0	SW 846 8270
Phenanthrene	8.4 D	mg/kg	1.0	SW 846 8270
1,3-Dichlorobenzene	ND	mg/kg	1.0	SW 846 8270
Anthracene	ND	mg/kg	1.0	SW 846 8270
di-n-Butylphthalate	3.9 D	mg/kg	1.0	SW 846 8270
Fluoranthene	7.6 D	mg/kg	1.0	SW 846 8270
Benzidine	ND	mg/kg	4.0	SW 846 8270
Pyrene	6.5 D	mg/kg	1.0	SW 846 8270
Butylbenzylphthalate	ND	mg/kg	1.0	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: A048 SOIL PILE B
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 04/28/98
 SAMPLE TYPE: SOIL

AES CLIENT ID: DTT
 AES SAMPLE ID: 81P6-1

PROJECT ID: 81P6

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
3,3'-Dichlorobenzidine	ND	mg/kg	1.0	SW 846 8270
Benzo(a)anthracene	3.2 D	mg/kg	1.0	SW 846 8270
bis(2-ethylhexyl)phthalate	ND	mg/kg	1.0	SW 846 8270
Chrysene	3.9 D	mg/kg	1.0	SW 846 8270
1,4-Dichlorobenzene	ND	mg/kg	1.0	SW 846 8270
di-n-Octylphthalate	ND	mg/kg	1.0	SW 846 8270
Benzo(b)fluoranthene	ND	mg/kg	1.0	SW 846 8270
Benzo(k)fluoranthene	ND	mg/kg	1.0	SW 846 8270
Benzo(a)pyrene	ND	mg/kg	1.0	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	mg/kg	1.0	SW 846 8270
Dibenzo(a,h)anthracene	ND	mg/kg	1.0	SW 846 8270
Benzo(g,h,i)perylene	ND	mg/kg	1.0	SW 846 8270
1,2-Dichlorobenzene	ND	mg/kg	1.0	SW 846 8270
bis(2-chloroisopropyl)ether	ND	mg/kg	1.0	SW 846 8270
n-Nitrosodi-n-propylamine	ND	mg/kg	1.0	SW 846 8270
Hexachloroethane	ND	mg/kg	1.0	SW 846 8270
Nitrobenzene	ND	mg/kg	1.0	SW 846 8270
Phenol	ND	mg/kg	1.0	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.0	SW 846 8270
Pentachlorophenol	ND	mg/kg	1.0	SW 846 8270
2-Nitrophenol	ND	mg/kg	1.0	SW 846 8270
2,4-Dimethylphenol	ND	mg/kg	1.0	SW 846 8270
2,4-Dichlorophenol	ND	mg/kg	1.0	SW 846 8270
2-Chlorophenol	ND	mg/kg	1.0	SW 846 8270
4-Chloro-3-methylphenol	ND	mg/kg	1.0	SW 846 8270
2,4,6-Trichlorophenol	ND	mg/kg	1.0	SW 846 8270
2,4-Dinitrophenol	ND	mg/kg	1.0	SW 846 8270
4-Nitrophenol	ND	mg/kg	1.0	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: DTT

PROJECT ID: 81P6

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
n-nitrosodimethylamine	ND	mg/kg	1.0	SW 846 8270
Isophorone	ND	mg/kg	1.0	SW 846 8270
bis(2-chloroethoxy)methane	ND	mg/kg	1.0	SW 846 8270
1,2,4-Trichlorobenzene	ND	mg/kg	1.0	SW 846 8270
Naphthalene	ND	mg/kg	1.0	SW 846 8270
Hexachlorobutadiene	ND	mg/kg	1.0	SW 846 8270
Hexachlorocyclopentadiene	ND	mg/kg	1.0	SW 846 8270
2-Chloronaphthalene	ND	mg/kg	1.0	SW 846 8270
Dimethylphthalate	ND	mg/kg	1.0	SW 846 8270
2,6-Dinitrotoluene	ND	mg/kg	1.0	SW 846 8270
Acenaphthylene	ND	mg/kg	1.0	SW 846 8270
bis(2-chloroethyl)ether	ND	mg/kg	1.0	SW 846 8270
Acenaphthene	ND	mg/kg	1.0	SW 846 8270
2,4-Dinitrotoluene	ND	mg/kg	1.0	SW 846 8270
Diethylphthalate	ND	mg/kg	1.0	SW 846 8270
4-chlorophenyl phenyl ether	ND	mg/kg	1.0	SW 846 8270
Fluorene	ND	mg/kg	1.0	SW 846 8270
n-Nitrosodiphenylamine	ND	mg/kg	1.0	SW 846 8270
1,2-Diphenylhydrazine	ND	mg/kg	1.0	SW 846 8270
4-Bromophenylphenyl ether	ND	mg/kg	1.0	SW 846 8270
Hexachlorobenzene	ND	mg/kg	1.0	SW 846 8270
Phenanthrene	ND	mg/kg	1.0	SW 846 8270
1,3-Dichlorobenzene	ND	mg/kg	1.0	SW 846 8270
Anthracene	ND	mg/kg	1.0	SW 846 8270
di-n-Butylphthalate	ND	mg/kg	1.0	SW 846 8270
Fluoranthene	ND	mg/kg	1.0	SW 846 8270
Benzidine	ND	mg/kg	4.0	SW 846 8270
Pyrene	ND	mg/kg	1.0	SW 846 8270
Butylbenzylphthalate	ND	mg/kg	1.0	SW 846 8270

CLIENT: SKW Alloys
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: DTT

PROJECT ID: 81P6

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
3,3'-Dichlorobenzidine	ND	mg/kg	1.0	SW 846 8270
Benzo(a)anthracene	ND	mg/kg	1.0	SW 846 8270
bis(2-ethylhexyl)phthalate	ND	mg/kg	1.0	SW 846 8270
Chrysene	ND	mg/kg	1.0	SW 846 8270
1,4-Dichlorobenzene	ND	mg/kg	1.0	SW 846 8270
di-n-Octylphthalate	ND	mg/kg	1.0	SW 846 8270
Benzo(b)fluoranthene	ND	mg/kg	1.0	SW 846 8270
Benzo(k)fluoranthene	ND	mg/kg	1.0	SW 846 8270
Benzo(a)pyrene	ND	mg/kg	1.0	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	mg/kg	1.0	SW 846 8270
Dibenzo(a,h)anthracene	ND	mg/kg	1.0	SW 846 8270
Benzo(g,h,i)perylene	ND	mg/kg	1.0	SW 846 8270
1,2-Dichlorobenzene	ND	mg/kg	1.0	SW 846 8270
bis(2-chloroisopropyl)ether	ND	mg/kg	1.0	SW 846 8270
n-Nitrosodi-n-propylamine	ND	mg/kg	1.0	SW 846 8270
Hexachloroethane	ND	mg/kg	1.0	SW 846 8270
Nitrobenzene	ND	mg/kg	1.0	SW 846 8270
Phenol	ND	mg/kg	1.0	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	mg/kg	1.0	SW 846 8270
Pentachlorophenol	ND	mg/kg	1.0	SW 846 8270
2-Nitrophenol	ND	mg/kg	1.0	SW 846 8270
2,4-Dimethylphenol	ND	mg/kg	1.0	SW 846 8270
2,4-Dichlorophenol	ND	mg/kg	1.0	SW 846 8270
2-Chlorophenol	ND	mg/kg	1.0	SW 846 8270
4-Chloro-3-methylphenol	ND	mg/kg	1.0	SW 846 8270
2,4,6-Trichlorophenol	ND	mg/kg	1.0	SW 846 8270
2,4-Dinitrophenol	ND	mg/kg	1.0	SW 846 8270
4-Nitrophenol	ND	mg/kg	1.0	SW 846 8270

CLIENT: SKW Alloys

AES CLIENT ID: DTT
 PROJECT ID: 81P6

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
n-nitrosodimethylamine	SW 846 8270	---	Independent Standard	84
Isophorone	SW 846 8270	---	Independent Standard	100
bis(2-chloroethoxy)methane	SW 846 8270	---	Independent Standard	86
1,2,4-Trichlorobenzene	SW 846 8270	---	Independent Standard	100
Naphthalene	SW 846 8270	---	Independent Standard	78
Hexachlorobutadiene	SW 846 8270	---	Independent Standard	88
Hexachlorocyclopentadiene	SW 846 8270	---	Independent Standard	98
2-Chloronaphthalene	SW 846 8270	---	Independent Standard	92
Dimethylphthalate	SW 846 8270	---	Independent Standard	98
2,6-Dinitrotoluene	SW 846 8270	---	Independent Standard	101
Acenaphthylene	SW 846 8270	---	Independent Standard	86
bis(2-chloroethyl)ether	SW 846 8270	---	Independent Standard	88
Acenaphthene	SW 846 8270	---	Independent Standard	84
2,4-Dinitrotoluene	SW 846 8270	---	Independent Standard	113
Diethylphthalate	SW 846 8270	---	Independent Standard	88
4-chlorophenyl phenyl ether	SW 846 8270	---	Independent Standard	82
Fluorene	SW 846 8270	---	Independent Standard	79
n-Nitrosodiphenylamine	SW 846 8270	---	Independent Standard	77
1,2-Diphenylhydrazine	SW 846 8270	---	Independent Standard	44
4-Bromophenylphenyl ether	SW 846 8270	---	Independent Standard	78
Hexachlorobenzene	SW 846 8270	---	Independent Standard	71
Phenanthrene	SW 846 8270	---	Independent Standard	62
1,3-Dichlorobenzene	SW 846 8270	---	Independent Standard	92
Anthracene	SW 846 8270	---	Independent Standard	63
di-n-Butylphthalate	SW 846 8270	---	Independent Standard	53
Fluoranthene	SW 846 8270	---	Independent Standard	66
Pyrene	SW 846 8270	---	Independent Standard	67
Butylbenzylphthalate	SW 846 8270	---	Independent Standard	78
Benzo(a)anthracene	SW 846 8270	---	Independent Standard	56

CLIENT: SKW Alloys

AES CLIENT ID: DTT
 PROJECT ID: 81P6

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
bis(2-ethylhexyl)phthalate	SW 846 8270	---	Independent Standard	112
Chrysene	SW 846 8270	---	Independent Standard	95
1,4-Dichlorobenzene	SW 846 8270	---	Independent Standard	87
di-n-Octylphthalate	SW 846 8270	---	Independent Standard	28
Benzo(b)fluoranthene	SW 846 8270	---	Independent Standard	22
Benzo(k)fluoranthene	SW 846 8270	---	Independent Standard	38
Benzo(a)pyrene	SW 846 8270	---	Independent Standard	21
Indeno(1,2,3-cd)pyrene	SW 846 8270	---	Independent Standard	120
Dibenzo(a,h)anthracene	SW 846 8270	---	Independent Standard	150
Benzo(g,h,i)perylene	SW 846 8270	---	Independent Standard	146
1,2-Dichlorobenzene	SW 846 8270	---	Independent Standard	90
bis(2-chloroisopropyl)ether	SW 846 8270	---	Independent Standard	77
n-Nitrosodi-n-propylamine	SW 846 8270	---	Independent Standard	77
Hexachloroethane	SW 846 8270	---	Independent Standard	64
Nitrobenzene	SW 846 8270	---	Independent Standard	88
Phenol	SW 846 8270	---	Independent Standard	71
4,6-Dinitro-2-methylphenol	SW 846 8270	---	Independent Standard	116
Pentachlorophenol	SW 846 8270	---	Independent Standard	98
2-Nitrophenol	SW 846 8270	---	Independent Standard	110
2,4-Dimethylphenol	SW 846 8270	---	Independent Standard	76
2,4-Dichlorophenol	SW 846 8270	---	Independent Standard	95
2-Chlorophenol	SW 846 8270	---	Independent Standard	95
4-Chloro-3-methylphenol	SW 846 8270	---	Independent Standard	89
2,4,6-Trichlorophenol	SW 846 8270	---	Independent Standard	101
2,4-Dinitrophenol	SW 846 8270	---	Independent Standard	120
4-Nitrophenol	SW 846 8270	---	Independent Standard	87

Advanced Environmental Services, Inc.
 Sample Traceability Report

Project Identification DTT 81P6

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
81P6-1	4-28-98	-	-	3550 8270	5-1-98	DR	8270	5-5-98	DP/OA

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

CHAIN OF CUSTODY RECORD



ENVIRONMENTAL SERVICES, INC.
2186 Liberty Drive
Niagara Falls, NY 14304

(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

CUSTOMER NAME: SKW Metals & Alloys, Inc.

PROJECT NAME: Witroy Lead Site

SAMPLER'S SIGNATURE: [Signature]

PROJECT I.D.#: 232696

JOB CODE: ATA 81P6

CONTAINER CLASSIFICATION	
UNPRESERVED	TOTAL
HNO ₃	VIAL (PRES)
H ₂ SO ₄	VIAL (UNPRES)
HCL	OTHER
NaOH	

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	PARAMETERS / REMARKS
4/28/98	09:22	A071 44-46"	X	Soil	Total Chromium
	09:48	A031 4-6"			
	10:55	A055			
	11:21	A082 24-30"			
	13:45	A012 12-14"			
	14:50	A064 12-17"			
	15:22	A048 28-30"			
	15:27	A048 12-24"			
	15:49	A048 (Soil Pile A)			VOC's (TCL) 8260
	15:49	A048 (Soil Pile B)			Semi VOC's (TCL) 8270
4/29/98	09:12	033 8-12"	X		Total Chromium
	09:36	033 36"			
4/29/98	11:13	114 16-21"			
	14:31	270 36-48"			
	10:30	092 20"			

TOTAL NUMBER OF CONTAINERS 15

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>4/29/98</u>	TIME: <u>17:40</u>	RECEIVED BY: <u>[Signature]</u>
2. RELINQUISHED BY: <u>[Signature]</u>	DATE: _____	TIME: _____	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE: _____	TIME: _____	RECEIVED BY: _____

SKW ALLOYS

SOIL ANALYSIS FOR PCBs

WITMER ROAD SITE

PROJECT 2-3269-6

SAMPLE DATE: MAY 1, 1998

Prepared By:

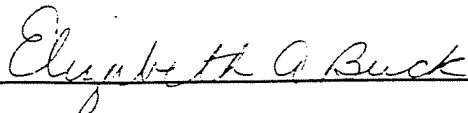
ADVANCED
ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

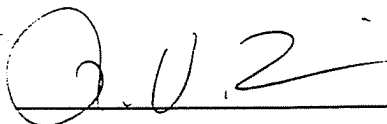
May 22, 1998
REF: DTT281PR/OR
Lab ID No. 10233

QA/QC VERIFICATION FOR PROJECT ID 81PR

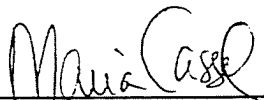
The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.



Organic Chemistry



Quality Control



Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted. Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested
D - Indicates a dilution was required

CLIENT: SKW Alloys SAMPLE ID: 281A 6-16 " COLLECTION METHOD: GRAB COLLECTION DATE(S): 05/01/98 SAMPLE TYPE: SOIL	AES CLIENT ID: DTT AES SAMPLE ID: 81PR-1 PROJECT ID: 81PR
--	---

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
PCB-1016	ND	mg/kg	0.033	SW 846 8082
PCB-1221	ND	mg/kg	0.033	SW 846 8082
PCB-1232	ND	mg/kg	0.033	SW 846 8082
PCB-1242	ND	mg/kg	0.033	SW 846 8082
PCB-1248	ND	mg/kg	0.033	SW 846 8082
PCB-1254	ND	mg/kg	0.033	SW 846 8082
PCB-1260	ND	mg/kg	0.033	SW 846 8082

CLIENT: SKW Alloys
 SAMPLE ID: 281D 21 "
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: SOIL

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PR-2

PROJECT ID: 81PR

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
PCB-1016	ND	mg/kg	0.033	SW 846 8082
PCB-1221	ND	mg/kg	0.033	SW 846 8082
PCB-1232	ND	mg/kg	0.033	SW 846 8082
PCB-1242	ND	mg/kg	0.033	SW 846 8082
PCB-1248	ND	mg/kg	0.033	SW 846 8082
PCB-1254	ND	mg/kg	0.033	SW 846 8082
PCB-1260	ND	mg/kg	0.033	SW 846 8082

CLIENT: SKW Alloys
 SAMPLE ID: 265B 16 "
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: SOIL

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PR-3

PROJECT ID: 81PR

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
PCB-1016	ND	mg/kg	0.033	SW 846 8082
PCB-1221	ND	mg/kg	0.033	SW 846 8082
PCB-1232	ND	mg/kg	0.033	SW 846 8082
PCB-1242	ND	mg/kg	0.033	SW 846 8082
PCB-1248	ND	mg/kg	0.033	SW 846 8082
PCB-1254	ND	mg/kg	0.033	SW 846 8082
PCB-1260	ND	mg/kg	0.033	SW 846 8082

CLIENT: SKW Alloys
 SAMPLE ID: 267B 16 "
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: SOIL

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PR-4

PROJECT ID: 81PR

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
PCB-1016	ND	mg/kg	0.033	SW 846 8082
PCB-1221	ND	mg/kg	0.033	SW 846 8082
PCB-1232	ND	mg/kg	0.033	SW 846 8082
PCB-1242	ND	mg/kg	0.033	SW 846 8082
PCB-1248	ND	mg/kg	0.033	SW 846 8082
PCB-1254	ND	mg/kg	0.033	SW 846 8082
PCB-1260	ND	mg/kg	0.033	SW 846 8082

CLIENT: SKW Alloys
 SAMPLE ID: 251C 24 "
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 05/01/98
 SAMPLE TYPE: SOIL

AES CLIENT ID: DTT
 AES SAMPLE ID: 81PR-5

PROJECT ID: 81PR

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
PCB-1016	ND	mg/kg	0.033	SW 846 8082
PCB-1221	ND	mg/kg	0.033	SW 846 8082
PCB-1232	ND	mg/kg	0.033	SW 846 8082
PCB-1242	ND	mg/kg	0.033	SW 846 8082
PCB-1248	ND	mg/kg	0.033	SW 846 8082
PCB-1254	ND	mg/kg	0.033	SW 846 8082
PCB-1260	ND	mg/kg	0.033	SW 846 8082

CLIENT: SKW Alloys SAMPLE ID: METHOD BLANK COLLECTION METHOD: COLLECTION DATE(S): SAMPLE TYPE: SOIL	AES CLIENT ID: DTT PROJECT ID: 81PR
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Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
PCB-1016	ND	mg/kg	0.033	SW 846 8082
PCB-1221	ND	mg/kg	0.033	SW 846 8082
PCB-1232	ND	mg/kg	0.033	SW 846 8082
PCB-1242	ND	mg/kg	0.033	SW 846 8082
PCB-1248	ND	mg/kg	0.033	SW 846 8082
PCB-1254	ND	mg/kg	0.033	SW 846 8082
PCB-1260	ND	mg/kg	0.033	SW 846 8082

CLIENT: SKW Alloys

AES CLIENT ID: DTT
PROJECT ID: 81PR

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
PCB-1248	SW 846 8082	---	Independent Standard	105

1st UNCLUSTURED 6.1



ENVIRONMENTAL SERVICES, INC.
2186 Liberty Drive
Niagara Falls, NY 14304
(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

CUSTOMER NAME: *Skw Metals - Alkars*

PROJECT NAME: *Witness*

SAMPLER'S SIGNATURE: *[Signature]*

PROJECT I.D.#: *2-3269.6*

JOB CODE: *DTT*

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION					TOTAL	PARAMETERS / REMARKS
					HNO ₃	HCl	NaOH	VIAL (PRES)	VIAL (UNPRES)		
5.1	10 ⁴⁵	281A 6-16"	x	soil				1		1	RBS
5.1	11"	281D 21"	x	soil				1		1	RBS
5.1	1123	265 B 16"	x	soil				1		1	↓
5.1	1220	267 B 16"	x	soil				1		1	↓
5.1	1220	251C 24"	x	soil				1		1	↓
					TOTAL NUMBER OF CONTAINERS					<i>5</i>	

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <i>[Signature]</i>	DATE: <i>5/11/98</i>	TIME: <i>14:11</i>	RECEIVED BY: <i>[Signature]</i>
2. RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
3. RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:

Advanced Environmental Services, Inc.
 Sample Traceability Report

Project Identification DTT 81PR

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
81PR-1	5/1/98	T	T	5520/8080	5/1/98	GA/BA	8080	5/18/98	GA
-2									
-3									
-4									
-5									

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.



Appendix C

Groundwater and Surface Water Monitoring Results

Appendix D

Stormwater Monitoring Results

SKW ALLOYS

LANDFILL ANALYSIS

ADDITIONAL TESTING OF WELLS ~~1 & 3R~~
And Stormwater Outfall
48 HOUR AND 72 HOUR RE-COLLECTION

SAMPLE DATES: 01/28-29/99

February 3, 1999
REF: DTT1917L/100B
Lab ID No. 10233

ADVANCED ENVIRONMENTAL SERVICES LABORATORY REPORT

CLIENT: SKW Alloys
 SAMPLE ID: Outfall 1 (72hr) resap
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 01/29/99
 SAMPLE TYPE: Groundwater

AES CLIENT ID: DTT
 AES SAMPLE ID: 917L-3

PROJECT ID: 917L

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	92.5	NTU	0.1	EPA 180.1
pH *	6.57	Std.	0.01	EPA 150.1
Total Hexavalent Chromium	0.05	mg/L	0.04	SW 846 7196
Total Chromium	0.200	mg/L	0.014	EPA 200.7

* Analysis performed in the field.

ADVANCED ENVIRONMENTAL SERVICES LABORATORY REPORT

CLIENT: SKW Alloys
 SAMPLE ID: 3R (48hr) Resample
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 01/28/99
 SAMPLE TYPE: Groundwater

AES CLIENT ID: DTT
 AES SAMPLE ID: 917L-1

PROJECT ID: 917L

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	14	NTU	0.1	EPA 180.1
Total Potassium	ND	mg/L	1.8	EPA 200.7
Total Sodium	12	mg/L	0.08	EPA 200.7
Total Iron	0.408	mg/L	0.060	EPA 200.7
Total Manganese	0.016	mg/L	0.010	EPA 200.7
Total Magnesium	46	mg/L	0.14	EPA 200.7
Total Calcium	95	mg/L	0.08	EPA 200.7
Total Lead	0.004	mg/L	0.002	EPA 239.2
Total Cadmium	ND	mg/L	0.001	EPA 213.2
Hardness	430	mg/L	1.0	EPA 200.7

* Analysis performed in the field.

ADVANCED ENVIRONMENTAL SERVICES LABORATORY REPORT

PAGE 2

CLIENT: SKW Alloys
 SAMPLE ID: 3R (72hr) Resample
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 01/29/99
 SAMPLE TYPE: Groundwater

AES CLIENT ID: DTT
 AES SAMPLE ID: 917L-2

PROJECT ID: 917L

Analytical Parameters	Analytical Results	Units	Practical Quantifiable	
			Limit	Method
Turbidity *	61.5	NTU	0.1	EPA 180.1
Total Potassium	ND	mg/L	1.8	EPA 200.7
Total Sodium	11	mg/L	0.08	EPA 200.7
Total Iron	2.31	mg/L	0.060	EPA 200.7
Total Manganese	0.094	mg/L	0.010	EPA 200.7
Total Magnesium	49	mg/L	0.14	EPA 200.7
Total Calcium	100	mg/L	0.08	EPA 200.7
Total Lead	0.010	mg/L	0.002	EPA 239.2
Total Cadmium	ND	mg/L	0.001	EPA 213.2
Hardness	460	mg/L	1.0	EPA 200.7

* Analysis performed in the field.

ADVANCED ENVIRONMENTAL SERVICES LABORATORY REPORT

CLIENT: SKW Alloys
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: DTT

PROJECT ID: 917L

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Total Potassium	ND	mg/L	1.8	EPA 200.7
Total Sodium	ND	mg/L	0.08	EPA 200.7
Total Iron	ND	mg/L	0.060	EPA 200.7
Total Manganese	ND	mg/L	0.010	EPA 200.7
Total Magnesium	ND	mg/L	0.14	EPA 200.7
Total Calcium	ND	mg/L	0.08	EPA 200.7
Total Lead	ND	mg/L	0.002	EPA 239.2
Total Cadmium	ND	mg/L	0.001	EPA 213.2
Hardness	ND	mg/L	1.0	EPA 200.7
Total Hexavalent Chromium	ND	mg/L	0.04	SW 846 7196
Total Chromium	ND	mg/L	0.014	EPA 200.7

ADVANCED ENVIRONMENTAL SERVICES, INC.
 QUALITY CONTROL REPORT

CLIENT: SKW Alloys

AES CLIENT ID: DTT
 PROJECT ID: 917L

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Total Potassium	EPA 200.7	---	Independent Standard	104
Total Sodium	EPA 200.7	---	Independent Standard	101
Total Iron	EPA 200.7	---	Independent Standard	101
Total Manganese	EPA 200.7	---	Independent Standard	101
Total Magnesium	EPA 200.7	---	Independent Standard	102
Total Calcium	EPA 200.7	---	Independent Standard	100
Total Lead	EPA 239.2	---	Independent Standard	104
Total Cadmium	EPA 213.2	---	Independent Standard	106
Hardness	EPA 200.7	---	Independent Standard	101
Total Hexavalent Chromium	SW 846 7196	---	Independent Standard	104
Total Chromium	EPA 200.7	---	Independent Standard	100

ADVANCED ENVIRONMENTAL SERVICES
P.O. Box 165
2186 Liberty Drive
Niagara Falls, New York 14304
(716) 283-3120
FAX (716) 283-4727

Destination Fax number: (904) 824-0726

02/15/99

Attention : Skip Hutton
SKW Alloys
LAN Associates
66 Cuna St.
St Augustine, FL 32084

From : Jonathan

Number of Pages (including cover sheet): 6

Ref: 91AE

Surface Water Analysis
Sample Date: February 12, 1999

ADVANCED ENVIRONMENTAL SERVICES LABORATORY REPORT

PAGE 1

CLIENT: SKW Alloys
 SAMPLE ID: Outfall 1
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 02/12/99
 SAMPLE TYPE: Water

AES CLIENT ID: DTT
 AES SAMPLE ID: 91AE-1

PROJECT ID: 91AE

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
pH *	7.98	Standard	0.1	EPA 150.1
Turbidity *	58.5	NTU	0.1	EPA 180.1
Total Hexavalent Chromium	ND	mg/L	0.04	SW 846 7196
Total Chromium	ND	mg/L	0.014	EPA 200.7

* Analysis performed in the field.

ADVANCED ENVIRONMENTAL SERVICES, INC.
QUALITY CONTROL REPORT

CLIENT: SKW Alloys
AES CLIENT ID: DTT
PROJECT ID: 91AE

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Total Hexavalent Chromium	SW 846 7196	91AE-1	Matrix Spike	104
Total Hexavalent Chromium	SW 846 7196	91AE-3	Matrix Spike	103
Total Chromium	EPA 200.7	91AE-1	Matrix Spike	92
Total Chromium	EPA 200.7	91AE-3	Matrix Spike	93
Total Chromium	SW 846 6010	91AE-2	Matrix Spike	92

ADVANCED ENVIRONMENTAL SERVICES, INC.
QUALITY CONTROL REPORT

CLIENT: SKW Alloys
AES CLIENT ID: DTT
PROJECT ID: 91AE

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Total Hexavalent Chromium	SW 846 7196	91AE-1	Duplicate	NA
Total Hexavalent Chromium	SW 846 7196	91AE-3	Duplicate	9.9
Total Chromium	EPA 200.7	91AE-1	Duplicate	NA
Total Chromium	EPA 200.7	91AE-3	Duplicate	0.7
Total Chromium	SW 846 6010	91AE-2	Duplicate	12

NA = NOT AVAILABLE - ORIGINAL AND/OR DUPLICATE RESULTS ARE BELOW REPORTED LIMITS



Appendix E

Chemical Data Interpretation

CHEMICAL DATA INTERPRETATION

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CHEMICAL DATA INTERPRETATION

SKW Metals & Alloys, Inc. Witmer Road

1. SUMMARY OF pH AND Cr⁺⁶ DATA FOR SKW SITE

1.1 STREAM WATER

The New York State Groundwater Class GA Standard (NYSGWCGAS) limit for hexavalent chromium (Cr⁺⁶) concentration is 0.05 mg/L, and that of pH is 6.5 to 8.5. All Quarterly Monitoring Reports showed that both pH and Cr⁺⁶ concentrations of surface water samples for both Stream Sites (#6A & #7) were above the NYSGWCGAS limits. The monitored pH values ranged from over 11.5 to over 13.5 for both sites. The Cr⁺⁶ concentration fluctuated from 0.11 to 0.38 mg/l for Site #6A, while that of Site #7 fluctuated from 0.16 to 0.88 mg/l. These ranges were based on the monitoring data in *Table 1-1*, APPENDIX A, and from the Preliminary Assessment Report by ABB-Environmental Services (ABB) in 1993 (ATTACHMENT 1). Monitoring and sample locations for the Vanadium site are shown in *Figure 1*. The highest Cr⁺⁶ concentration occurred in 1989 at Site #7 (0.88 mg/l) when the upstream Site #6A was dry. Similar high Cr⁺⁶ concentration also occurred in June 1993 for Site #7 when Site #6A was dry. Site #6A is located near the southeast corner of the SKW property and is also the exit site from the Airco property. Site #7 located 300 feet south of Site #6A is downstream. Water sampled at location Site #6A may include stream flow, surface runoff, and seepage from the Airco site. Water sampled at Site #7 may include stream flow from the Airco site and surface runoff from the SKW site. The reason for increasing Cr⁺⁶ concentration at Site #7 during the dry season is due to an evaporation and concentration process in which Cr⁺⁶ exists as CrO₄⁻ chemical form that is water soluble. The elevation of Site #7 is slightly lower than Site #6A which allowed the accumulation of Cr⁺⁶ and water during the dry season.

1.2 STREAM SEDIMENT

The Cr⁺⁶ content of the sediment samples at Sites #6A and #7 ranged from 0.5 to 3.5 mg/kg. These results were based on a LAN/SKW study (*Table 1-2*) completed in 1996 and the report submitted by ABB in 1993 (ATTACHMENT 2). The pH for the sediment samples ranged from 8 to 9.4, which did not exhibit characteristics of hazardous waste. The sediment material is light gray in color probably dominated by the precipitate of CaCO₃ due to reaction of dissolved Ca(OH)₂ and CO₂ entered from the atmosphere into

the water. Thicker sediment material was found in the stream of the Airco site than that in the SKW site indicating that higher concentration of Ca(OH)_2 exists in the stream of the Airco site than in the SKW site.

1.3 WASTE PILE

Only one waste pile sample (WT-104) on the SKW property was analyzed for hexavalent chromium (Cr^{-6}) content by ABB in 1993 (ATTACHMENT 3). The Cr^{-6} content was lower than 1 mg/kg. In contrast, the Cr^{-6} content of waste pile samples taken from the Airco and Niagara Mohawk properties were mostly higher. The Cr^{-6} content for waste pile samples in the Airco property (WT-101, WT-102, and WT-103) ranged from 3.5 to 16 mg/kg. Even higher Cr^{-6} content was found from the waste pile samples of the Niagara Mohawk property (as high as 91 mg/kg). The waste pile sample (WT-104) from the SKW property was slightly acidic (pH 6.54). However, those from the Airco and Niagara Mohawk properties were alkaline (pH ranged from 7.5 to 10.51) except one sample (WT-05). In general, waste samples that contained higher Cr^{-6} also had higher pH value.

1.4 LEACHATE

The quarterly monitoring data (*Table 1-1* and APPENDIX A) showed that Cr^{-6} concentration of the SKW landfill leachate samples from the collection system tank were below the limit of NYSGWCGAS (0.05 mg/L). In 1993, ABB analyzed three leachate samples from the SKW landfill, two of them were collected within the two landfill cells and the other was from the collection system tank to the south of the landfill. The leachate Cr^{-6} concentrations were below detection limit (0.01 mg/L), except the one from Cell #2 that was 0.12 mg/L (ATTACHMENT 4). The pH values of landfill leachate samples (pH 7.4 to 7.8) were also within NYSGWCGAS limit of pH 6.5 to 8.5.

1.5 SOIL SAMPLES

In LAN/SKW study conducted in 1996, Cr^{-6} content of four surface soil (2-5") samples in the SKW property were measured (*Table 2-2*). These samples were taken nearby the Stream Sites (#6A and #7). The measured soil Cr^{-6} content ranged from 0.3 to 1.1 mg/kg. This content was similar to that of the waste pile sample from SKW site (WT-104) reported by ABB in 1993. It is also interesting to see that the soil Cr^{-6} contents at the stream border were slightly higher than those of the samples taken 35 to 40 feet away from the stream. The results suggest that soil along the stream boundary absorbs Cr^{-6} from the stream water.

1.6 PONDED WATER

Ponded water (to a depth of several inches) existed on some of the recessed areas in SKW property during the rain season. The Cr^{-6} for the ponded water was detected (0.26 mg/L) in the southeast corner of the SKW site (*Table 1-2*). The southeast corner of the SKW site is close to the Airco dumping site. However, Cr^{-6} was not detected in the ponded water 300 feet away from the Airco/SKW boundary. It is possible that materials containing lime and Cr may have been transported from the Airco site into the SKW site via surface runoff or seeping prior to the construction of a berm between the two properties. The Airco site to the east of the SKW site is higher in elevation than the SKW site (an estimate of 30 ft). An aerial photo shows signs of surface runoff from the Airco waste pile into the SKW property.

1.7 MONITORING WELL CHEMICAL DATA

The baseline monitoring data in *Table 1-1* consistently shows that pH values and Cr^{-6} concentrations for the monitoring wells in the SKW property met the NYSGWCGAS limits except the pH for MW-5R that fluctuated from pH 7 to pH 9.4. The well MW-5R site is located nearby Stream Site #7. Therefore, water in MW-5R may be impacted by the stream water. In 1993, ABB measured the chemical properties including pH and Cr^{-6} in groundwater at the Vanadium site (ATTACHMENT 5). Five of the tested wells were located on the SKW property (MW-5, MW-5A, MW-12, MW-12A, MW-14N), and three were located on the Airco property (MW-1, MW-1A, MW-4A). Wells MW-1A, MW-4A, MW-5A, and MW-12A are shallow wells (9 to 12 feet deep), while the other wells are deep wells (19 to 23 feet deep).

The measured pH values and Cr^{-6} concentrations from the wells on the SKW property did not exceed the NYSGWCGAS limits except Cr^{-6} concentration for Well MW-5A that was slightly higher (0.09 mg/L). However, both pH and Cr^{-6} concentration for Well MW-4A from the Airco site were much higher (pH 13.21 and Cr^{-6} concentration of 1.56 mg/L, respectively) than the standard limits. These values were even higher than those of the surface water samples at Stream Sites #6A and #7. Well MW-4A is located on the north of the Airco property and to the east of the SKW site. Piles of slag and/or fume dust materials were exposed to the surface around the well in the Airco property. The contrast in Cr^{-6} concentrations of the monitoring well water samples between SKW and Airco site indicated that the Cr^{-6} in stream water could not be impacted by the groundwater from the SKW site. However, the impact is possible by the groundwater from the Airco site.

2. MONITORING DATA OF Cr^{+6} AND pH FOR AIRCO SITE

As reported by ABB in 1993, the pH values and Cr^{-6} contents for the waste pile samples and water samples were higher on the Airco or Niagara Mohawk Power properties than those of the SKW property. These results are consistent with the quarterly monitoring data for the Airco site. Both the pH and Cr^{-6} standard limits are exceeded by the stream water and shallow monitoring well water of the Airco site. The deep well water from the Airco site also exceeded the standards. These results are consistent with monitoring data that dates back to 1979. However, the water quality of the monitoring wells at SKW has never exceeded the limits except once for MW-5R. The monitoring data of Cr^{-6} and pH for the Airco site are further discussed as follows:

2.1 SURFACE WATER MONITORING DATA

Airco monitored chemical parameters including Cr^{-6} concentration and pH of the stream water at both the stream entrance (Site #6) and the stream exit from the Airco property (Site #6A). The Site #6 received water from both the Airco and Niagara Mohawk Power properties because it is downstream to the two properties. At the entrance site, the Cr^{-6} concentration ranged from below detection limit to 0.19 mg/l, while the water pH ranged from 9 to 12 (*Figure 2-1* and APPENDIX B). At the exit point, the Cr^{-6} concentration and pH were mostly higher than those of the entrance Cr^{-6} concentrations (from 0 to 0.55 mg/L and pH from 10 to over 12) (*Figure 2-2* and APPENDIX B). Both Cr^{-6} concentration and pH fluctuated with an overall increasing trend with time. The fluctuation of Cr^{-6} concentrations followed the same trend as that of the pH change. It is expected that both the pH value and the Cr^{-6} concentration at the entrance is lower than those of the exit point because the chemical run-off and seepage to the surface stream is concentrated at the downstream location. The accumulation of Cr^{-6} at Site #7 is also indicated by the trend of increasing Cr^{-6} concentrations over time of monitoring.

2.2 SHALLOW WELL WATER MONITORING DATA

Airco has monitored chemical concentrations of the four shallow wells in the facility since 1986. Cr^{-6} concentration was measured annually and pH was measured quarterly. The locations of the shallow wells are shown in the site sampling location map by ABB in 1993 (ATTACHMENT 6). These wells are:

MW-1A	South Boundary of Airco site (by the stream)
MW-2A	Southeast boundary of Airco site (by the stream)
MW-4A	Northeast boundary of Airco site (close to NMP site)
MW-13A	West boundary of Airco site (close to SKW site)

The bottom of the wells ranged from 9 to 13 feet deep. The pH values of all shallow wells exceeded the NY Groundwater Standard limit except one well (MW-1A). The change in pH values and Cr⁻⁶ concentrations with time for three of the shallow wells was plotted in *Figures 2-4 to 2-6*. The pH values for Wells 2A, 4A, and 13A exceeded 12 since 1986 when the data was available. These values fluctuated from 10 to 13 with an increasing trend over the time of monitoring. The Cr⁻⁶ concentrations of the shallow wells also exceeded the NY Groundwater Standard. The highest Cr⁻⁶ concentrations ranged from 0.75 to 1.6 mg/l in the three wells.

It is understood that the direction of under groundwater movement is from northeast to southwest for the Vanadium site (from the Airco property to the SKW property). Therefore, Cr⁻⁶ in the shallow groundwater can be transported from the Airco site into the SKW site. The surface elevation of the Airco site is also higher than that of the SKW site (approximately 25 to 30 feet); therefore, it is possible that the SKW site was contaminated with soluble Cr⁻⁶ and Ca(OH)₂ carried from the Airco site into the SKW site through surface run-off and groundwater flow. Furthermore, as shown in *Figure 2-7*, since the water table level of shallow wells from the Airco site is similar to that of the stream surface, it is very likely that Cr⁻⁶ in the stream is impacted by the shallow groundwater from the Airco site.

2.3 DEEP WELL WATER MONITORING DATA

Chemical data from deep well water at the Airco site has been monitored since 1979 or 1980. Four deep wells nearby the corresponding shallow wells have been monitored. These wells include:

MW-1	South side of Airco site (by the stream)
MW-2A	Southeast of Airco site (by the stream)
MW-4A	Northeast of Airco site (close to NMP site)
MW-13A	West of Airco site (close to SKW site)

The depth of the deep wells ranged from 19 ft to 23 ft. Based on the monitoring data available from 1979 to 1994, the quarterly monitored pH values and the annually monitored Cr⁻⁶ concentrations for three out of four monitoring wells were within the NY Groundwater Standard limits, except one (MW-2) at the southeast of the Airco property. Water pH value for Well MW-2 increased rapidly from below pH 8 to over pH 10 in 1984 compared to 1983 (*Figure 2-3*). The pH of the water continued to increase to over pH 12 in 1985. This pH range has been maintained in the last ten years (as of 1994 data).

LAN ASSOCIATES ¹/₂

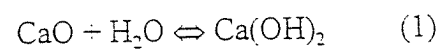
The Cr⁻⁶ concentration in deep MW-2A well followed the trend of increasing pH slowly. Although the pH value of the water at MW-2A was over 12 in 1985 and 1986, the Cr⁻⁶ concentration of the water remained below the NY Groundwater Standard limit (0.05 mg/l) until 1988. In 1988 Cr⁻⁶ concentration increased rapidly as the pH remained over 12. This is an indication of the effect of high pH on Cr⁻⁶ oxidation. When the pH is above 12, water is nearly saturated with lime (Ca(OH)₂). It took three to four years for Cr⁻⁶ concentration to increase significantly following the pH increase to 12 for water in Well MW-2. The results indicate that alkaline condition is favorable for Cr oxidation into Cr⁻⁶. However a relatively long period (several years) is required for significant oxidation of Cr following lime saturation.

3. MECHANISM OF CR⁺⁶ TRANSFER

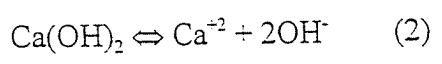
Both Cr^o concentrations and pH of the stream water exceeded the New York State Groundwater Class GA Standards. There are close relations between Cr⁻⁶ concentrations and pH in both surface and groundwater samples. The transformation and transfer of chemicals in the Vanadium site are described in a conceptual model in *Figure 3-1*. The understanding of this relation will be very helpful in selecting effective remediation measures. The cause for the high water pH and hexavalent chromium concentration in the stream water may be discussed as follows:

3.1 CAUSE FOR THE WATER PH INCREASE

The Airco and Niagara Mohawk properties are dominated by exposed waste piles that contain lime slag, ferrochromium silicon slag, and ferrochromium silicon dust. The lime slag material is dominant by calcium oxide. Oxides of magnesium, potassium, and sodium also could be present as impurities. The oxides at or near the surface of waste piles are gradually hydrolyzed during wet conditions:



The hydrolyzed oxide materials are soluble and can be carried downgradient through surface runoff or infiltration into the groundwater during wet seasons. This is especially true because the slag material was deposited as uneven piles on the Airco and Niagara Mohawk properties site. The exposed piles are upgradient of the stream sites #6A and #7 and all of the SKW monitoring wells. The hydroxides can be transported from the Airco and Niagara Mohawk disposal sites into the stream sites (6A and 7) through surface runoff and groundwater through infiltration. One dissolved Ca hydroxide molecule is dissociated into one calcium cation and two hydroxyl anions in water:



The water pH value is a measurement of the negative log of water H⁺ activity. There is a mathematical relation between pH and pOH (negative log of water OH⁻ activity):

$$pOH = 14 - pH. \quad (3)$$

As the water pH increases, the pOH decreases; therefore, the OH⁻ activity increases. High water pH value indicates high dissolved OH⁻ concentration in the water. The quarterly monitoring data showed that Ca was the highest metal detected in the stream

were also detected in the samples. This indicated that dissolved oxides of Mg, Na, and K may also have contributed to the high stream water pH.

3.2 HEXAVALENT CHROMIUM AND pH RELATIONSHIP

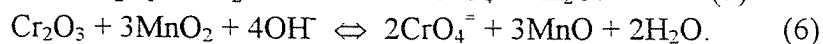
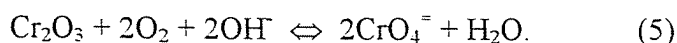
The chemical monitoring data indicated that there is a relation between pH value and Cr⁻⁶ concentration in the water samples. Understanding of the relation is very helpful in controlling the transfer of these chemicals in the environment. The Cr⁻⁶ concentrations of water samples exceeded 0.05 mg/l under alkaline condition (pH >12). The Cr⁻⁶ concentrations are below detection limit when the water is neutral. This is due to the fact that the oxidation reaction is favorable under alkaline conditions (higher OH⁻ concentration):



The equation demonstrated that reaction (4) can move toward the formation of CrO₄⁼ by increasing water OH⁻ concentration or pH. The increase in water pH is due to the increase in dissolved lime slag concentration (Ca(OH)₂). Lime slag can be dissolved, leached vertically, and carried off-site by surface water or groundwater. The dissolved lime slag concentration can also be increased through time of contact between lime slag and water or through evaporation/water volume loss.

3.3 CHROMIUM TRANSFORMATION AND TRANSFER

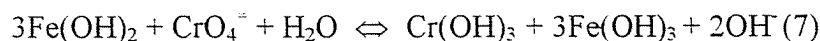
Historical analytical data of water samples showed that groundwater and landfill leachate samples of the SKW site did not exceed 0.05 mg/l, except for stream water. Most of the chromium present in the slag and fume dust is in the trivalent form (Cr₂O₃) or even metal form that is stable under reduced conditions. The solubility of trivalent chromium is below 0.05 mg/l in water between pH 5 to 12. Trivalent Cr or Cr metal can be oxidized into hexavalent form under alkaline condition and water oxidizing environments, such as exposing to air and MnO₂:



Transformation of Cr from trivalent form into the hexavalent form causes it to become very soluble. For example, the solubility for K₂CrO₄ is 630 g/l. The soluble Cr⁺⁶ can be carried into stream through surface runoff or seepage.

3.4 THE MOBILITY OF CR⁺⁶ INTO THE GROUNDWATER

The soluble hexavalent chromium can also migrate into the groundwater. The kinetic of Cr⁻⁶ migration is limited by factors such as pH and Eh conditions. Quarterly monitoring of the SKW site showed that Cr⁻⁶ concentrations in the monitoring well water samples were below detection limit. The redox potentials of the monitoring wells ranged from -100 mv to 100 mv while the pH values were neutral. These conditions are favorable for restricting the oxidation of Cr⁺³ into Cr⁻⁶. At Eh from -100 mv to 100 mv, both ferro- and ferric iron exist in the environment. The trivalent Cr is stabilized when ferrous iron is present. This is because the ferrous iron tends to reduce Cr⁻⁶ into Cr⁺³:



Oxidation and reduction of iron is a dominant process in regulating the level of Cr⁻⁶ in the groundwater due to the reduced environment and neutral pH condition. Iron is expected to be abundant in the Vanadium site because both fume dust and slag are the by-products of ferroalloys.

However, at high pH conditions, the reduction of Cr⁻⁶ into Cr⁺³ is prohibited due to the increase in pH and raise in the OH⁻ concentration. At higher OH⁻ concentration, the equilibrium of reaction (7) moves toward the oxidation of Cr⁺³. The analytical data from the Vanadium site is supported by the results reported by ABB in 1993. The Cr⁻⁶ concentration was 1.45 mg/l in the MW-4A water sample where the water pH was 13.21. This well is located near the Airco/Niagara Mohawk boundary lines toward the northeast of the SKW property. Therefore, Cr⁻⁶ can be controlled if the dissolved lime solution is not allowed to infiltrate into the groundwater. The Cr⁻⁶ concentration in the groundwater will be expected to be below 0.05 mg/l. This is because the Cr⁻⁶ that infiltrated from the surface water will be reduced under reduced groundwater conditions. The insoluble Cr⁺³ will have a maximum total Cr solubility of 0.05 mg/l. The mobility of hexavalent chromium is discussed in greater detail in a USEPA Groundwater Issue Report dated October 1994 (APPENDIX C).

3.5 FLUCTUATION IN CR⁺⁶ CONCENTRATIONS IN THE STREAM WATER

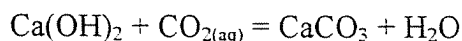
The Cr⁻⁶ is carried via surface runoff or seepage into the stream during wet periods. Some Cr⁻⁶ accumulates in the downstream monitoring sites where water is not freely drained. The Cr⁻⁶ concentration in stagnant, ponded water increases during the drying period as the water volume decreased due to surface evaporation. Precipitation of Cr⁻⁶ as salts can occur as the Cr⁻⁶ concentration is supersaturated with respect to each specific compound such as CaCrO₄. The precipitated compounds can be dissolved when the

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stream water is diluted during the next wet season. During the wet periods, the Cr^{-6} concentration in the steam water will be diluted by rainwater and the detected concentration of Cr^{-6} will decrease.

3.6 VARIATION IN WATER PH

The pH value of the stream water increases with dissolved $\text{Ca}(\text{OH})_2$ concentration. Concentration of $\text{Ca}(\text{OH})_2$ also increases with evaporation and water loss. At saturated $\text{Ca}(\text{OH})_2$ concentration, the pH value is expected to decrease as Ca concentration increases because the solubility product for $\text{Ca}(\text{OH})_2$ is constant (7.88×10^{-6}). The measured water pH and Ca concentrations of the monitoring data indicated that the stream is saturated with $\text{Ca}(\text{OH})_2$ most of the time. The saturation is indicated by the similar pH values between the measured result and the calculated result at the same Ca concentration. For example, the quarterly monitored Ca concentrations in June 1993 and December 1994 were 376 and 810 mg/l, respectively, at Stream Site #7. The measured pH were 12.6 and 12.53, respectively. Using the above Ca concentration and solubility constant of $\text{Ca}(\text{OH})_2$, the calculated minimum water pH values were 12.46 and 12.3, respectively. Therefore, the measured pH values were close to the calculated pH values. While the $\text{Ca}(\text{OH})_2$ concentration of the stream water can be increased through surface water evaporation, its concentration can also be reduced due to the interaction of soluble $\text{Ca}(\text{OH})_2$ with CO_2 entered from the atmosphere. The reaction product is a neutralized carbonate:



The CaCO_3 seems to be a dominant form in some stream sediment because the pH value of some stream sediment samples were near neutral according to the ABB report.

4. CONCLUSIONS AND SUGGESTIONS

- a) The pH values and Cr^{-6} groundwater concentrations in the monitoring wells at the SKW site usually met the New York Groundwater Standards. The results indicate that the SKW landfill leachate and the groundwater did not impact the pH values and Cr^{-6} concentrations of the stream sites.
- b) Surface runoff in the southeast corner of the SKW site may have some impact on the stream water quality indicated by the Cr^{-6} level of the ponded water. However, the problem area is confined to a very shallow depth that was probably contaminated by the surface runoff from the Airco waste pile prior to the construction of a berm between the property.
- c) Based on the pH and Cr^{-6} data from waste piles, surface water, and groundwater, the Airco and Niagara Mohawk properties are the major contributors to the stream and groundwater pH and Cr^{-6} at the Vanadium site.
- d) High surface water pH is due to accumulation of $\text{Ca}(\text{OH})_2$.
- e) Exposed waste piles in the Airco and Niagara Mohawk sites probably contain ferrochrome silica slag, fume dust, and lime slag. These materials most likely are the source of $\text{Ca}(\text{OH})_2$ and Cr^{-6} in surface water and groundwater.
- f) The surface runoff and infiltration are the major pathways for Cr^{-6} and $\text{Ca}(\text{OH})_2$ transport from the exposed waste piles into the stream.
- g) The Cr^{-6} concentration in surface water increased with soluble lime slag ($\text{Ca}(\text{OH})_2$) concentration or pH. Controlling the release of soluble lime slag material will help reducing Cr^{-6} concentration.
- h) Capping is an effective way to control Cr^{-6} and lime transfer by cutting off air and water from contacting the exposed waste piles.

Table 1-1

SKW Baseline Monitoring Data

Table 1-1

SKW Baseline Monitoring
SKW Landfill Site, Witmer Road

Date	Well 3-R				Well 5-R				Well 12				Well 14-N				Leachate				Point 6A				Point 7			
	Total Cr	Cr+6	pH	Eh	Total Cr	Cr+6	pH	Eh	Total Cr	Cr+6	pH	Eh	Total Cr	Cr+6	pH	Eh	Total Cr	Cr+6	pH	Eh	Total Cr	Cr+6	pH	Eh	Total Cr	Cr+6	pH	Eh
	mg/L		SU	mV	mg/L		SU	mV	mg/L		SU	mV	mg/L		SU	mV	mg/L		SU	mV	mg/L		SU	mV	mg/L		SU	mV
Jun-89	0.017	BQL	6.99		0.005	BQL	9.46		0.035	BQL	6.93		0.007	BQL	6.83						0.18	0.2	11.61		0.23	0.36	12.04	12.04
Aug-89	BQL	BQL	7.11	2	BQL	BQL	9.24	-117	BQL	BQL	7.32	-9	BQL	BQL	6.96	13					Dry, not sampled				1.32	0.88	12.37	-296
Sep-90																	0.016	BQL	7.87	144								
Dec-92	BQL	BQL	7.21	91	BQL	BQL	7.94	98	BQL	BQL	7.11	-101	BQL	BQL	7.12	51	0.03	0.02	8.73	40	0.16	0.11	11.71	-25	0.34	0.2	12.37	-99
Jun-93	BQL	BQL	7.11	10	BQL	BQL	7.81	11	BQL	BQL	7.01	-149	BQL	BQL	6.9	24	0.03	0.02	8.5	26	Not Sampled				0.92	0.84	12.53	-132
Dec-94	BQL	BQL	7.13	-20	BQL	BQL	7.7	-48	BQL	BQL	7.2	-19	BQL	BQL	7.12	-14	0.02	BQL	8.59	49	BQL	0.32	12.78	-323	1.5	0.57	12.6	-312
Jun-96	BQL	BQL	7.08	99	BQL	BQL	9.35	52	BQL	BQL	6.89	51	BQL	BQL	6.82	41	BQL	BQL	9.75	54	0.25	0.24	13.6	-76	0.44	0.36	13.6	-57
Dec-96	BQL	BQL	7	128	BQL	BQL	6.76	122	BQL	BQL	6.86	42	BQL	BQL	6.82	14	BQL	0.05	8.12	124	BQL	0.38	11.88	-64	BQL	0.32	11.65	-30

Table 1-2

Summary of Landfill Study

Summary of Landfill Study
SKW, Witmer Road

Objective	Sample Site	Depth	Filter	Precipitate	Total	Cr ⁺⁶	Ca	Sampling Site No.*
					Cr	mg/l		
Effect of aeration	Water Site 7	Top (0-1 inch)			0.2	0.17	340	1
		Lower (1-2 inch)			NA	0.43	320	1
Filtered vs unfiltered	Water Site 6A	0 - 1"	Unfiltered		0.45	0.31	670	2
		0 - 1"	Filtered		0.52	0.22	2.3	2
Cr ⁺⁶ variation in the pounded water	Landfill Pounded water	0 - 2"		Has precipitate		0.26		8
		0 - 2"		No precipitate		0		7
Storm Water Discharge	Water Outflow Site	Surface				0.05		9
Cr ⁺⁶ Content with Depth	Sediment Site #7	0 - 1"			mg/kg			1
		3 - 4"				0.6		1
	Sediment Site #6A	0 - 1"					0.37	2
		3 - 4"					0.46	2
Soil Cr ⁺⁶ variation	2 ft N of Site #7	2 - 5"				0.48		3
	40 ft N of Site #7	2 - 5"				0.33		4
	2 ft N of Site 6A	2 - 5"				1.1		5
	35 ft N of Site 6A	2 - 5"				0.92		6

Note: NA- Not analyzed;
ND-Not detected.

* See Figure 1

Figure 1

Site Plan - Sampling Locations

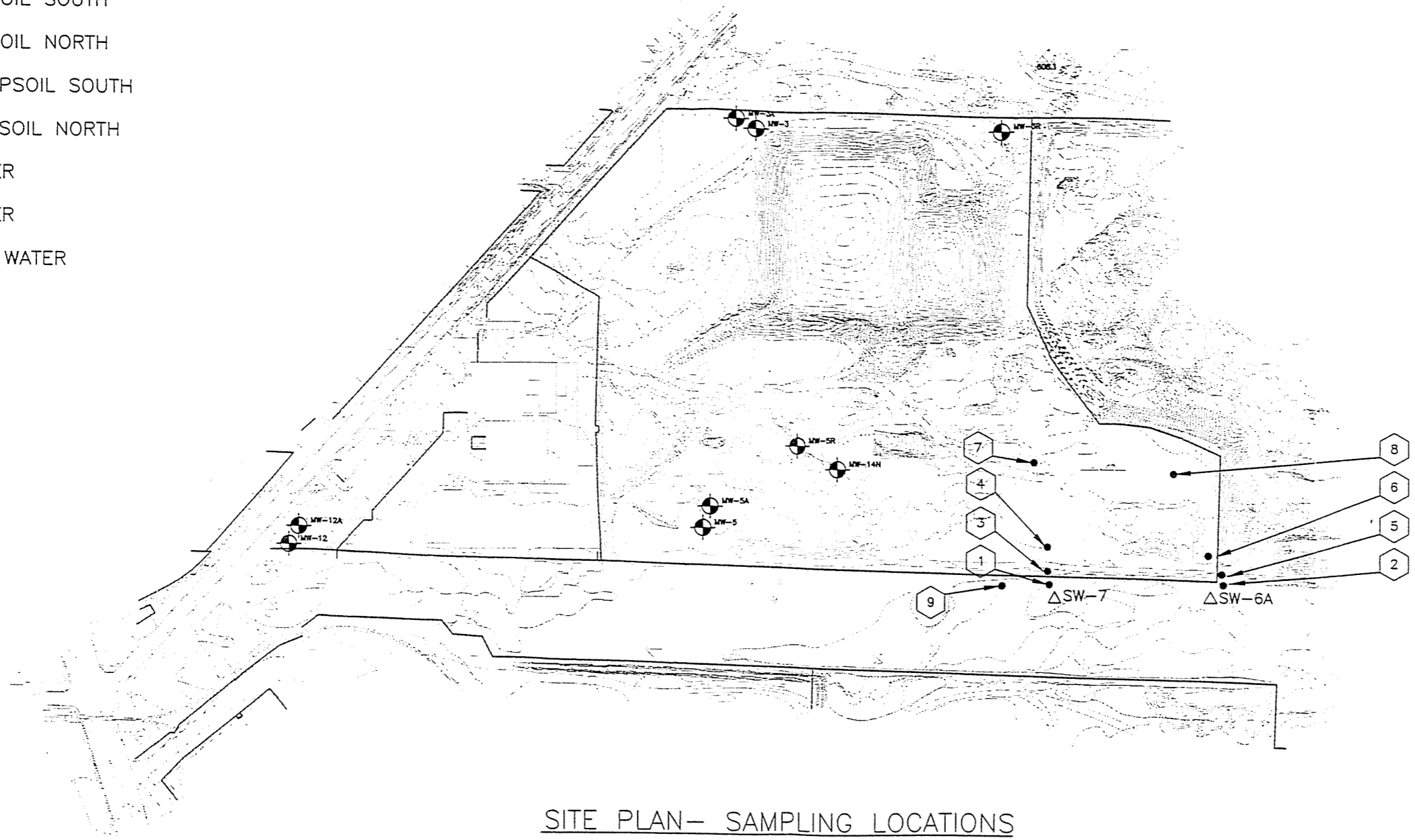
SAMPLING SITES

- 1 NO.7 - WATER & SEDIMENT
- 2 NO.6A - WATER & SEDIMENT
- 3 NO.7 - TOPSOIL SOUTH
- 4 NO.7 - TOPSOIL NORTH
- 5 NO.6A - TOPSOIL SOUTH
- 6 NO.6A - TOPSOIL NORTH
- 7 PONDED WATER
- 8 PONDED WATER
- 9 DOWNSTREAM WATER

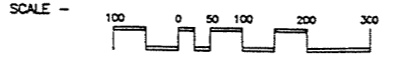


REVISION :
 A REV. SAMPLING
 TAG NOS.
 TJ 02/04/97

DATE : 10/30/96
 CHECKED : HW
 DRAWN : T JONES
 SCALE : 1"=300'



SITE PLAN - SAMPLING LOCATIONS



SKW METALS & ALLOYS, NIAGARA FALLS - WITMER ROAD

SYMBOL LEGEND

- SAMPLING SITE
- △ SW-6A PREVIOUS SLC SURFACE WATER SAMPLING LOCATION
- MW-5 EXISTING MONITORING WELL LOCATIONS

NOTE:
 DRAWING BASED ON LOCKWOOD MAPPING, INC. TOPOGRAPHIC SERIES 6781S1 THRU 6781S11

LAN ASSOCIATES
 environmental and facilities engineering
 662 GOFFLE ROAD, HAWTHORNE, NJ 07506-3499 (201) 423-0350

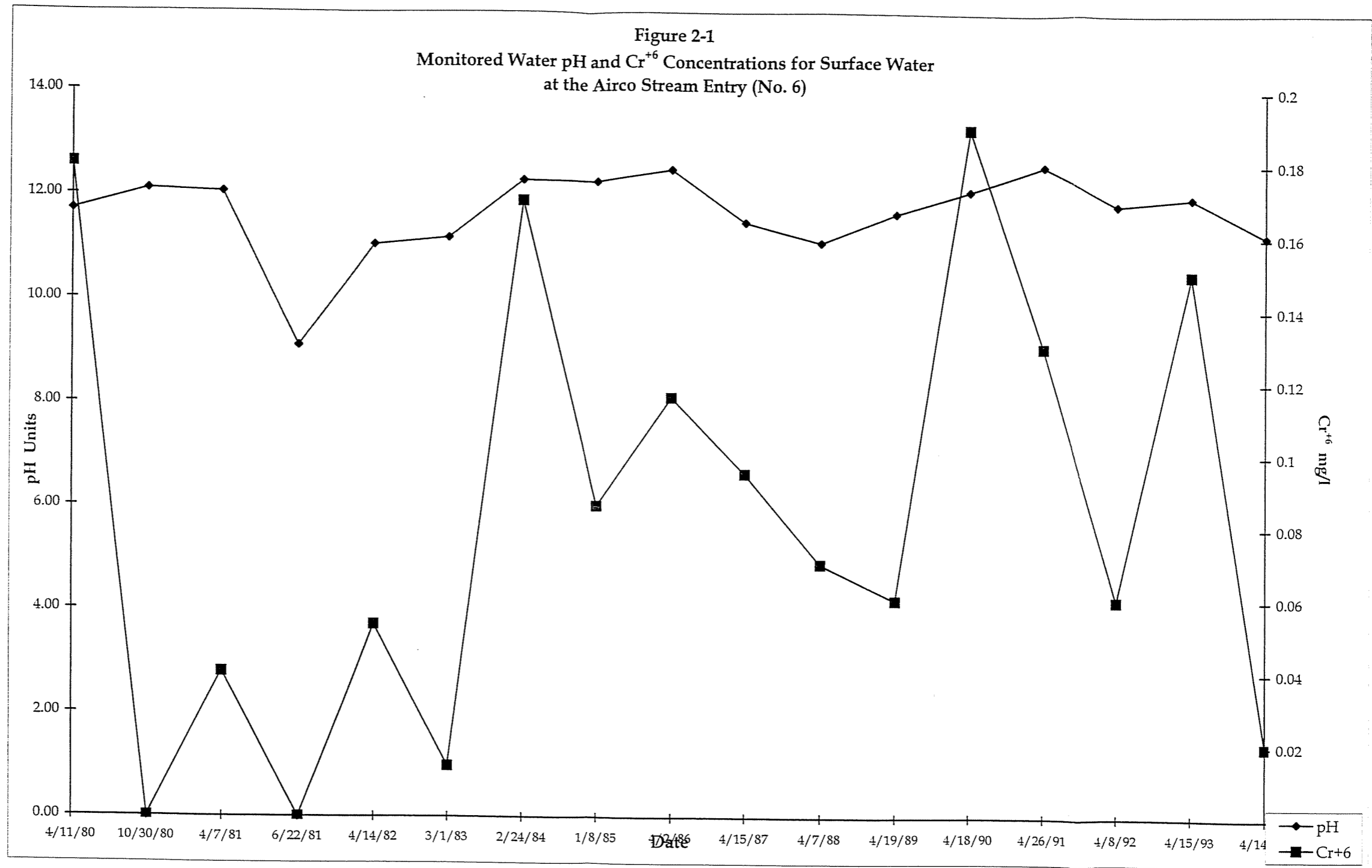
JOB NO. 2.3269.6
 DWG. FILE CODE 32696S14

FIGURE NO. 1

Figure 2-1

**Monitored Water pH and Cr⁺⁶ Concentrations
For
Surface Water at the Airco Stream Entry (No. 6)**

Figure 2-1

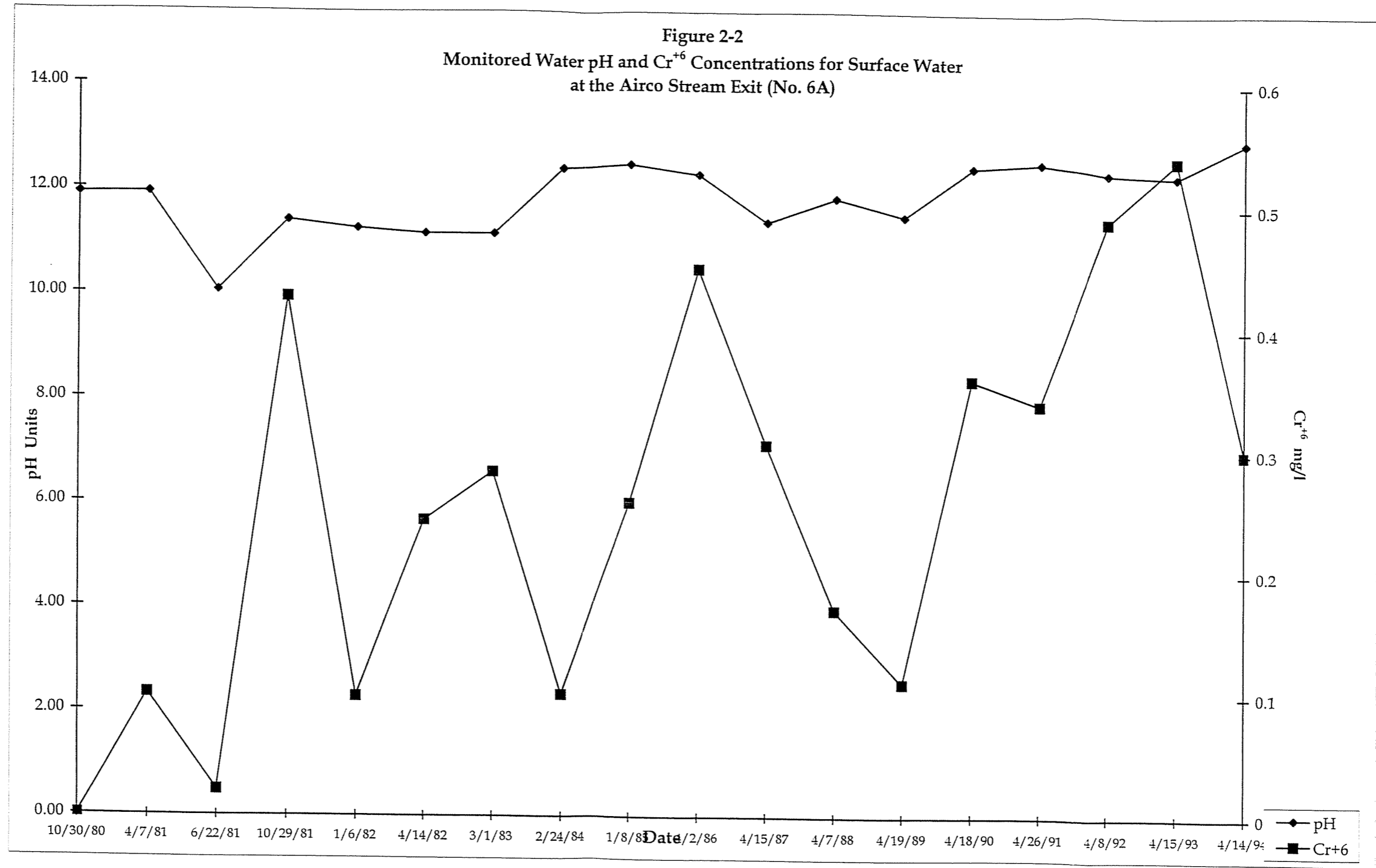


LAN Associates, Inc.
Job #2.3269.6
Summary Graph pH/Cr+6
February 3, 1997

Figure 2-2

**Monitored Water pH and Cr⁺⁶ Concentrations
For
Surface Water at the Airco Stream Exit (No. 6)**

Figure 2-2

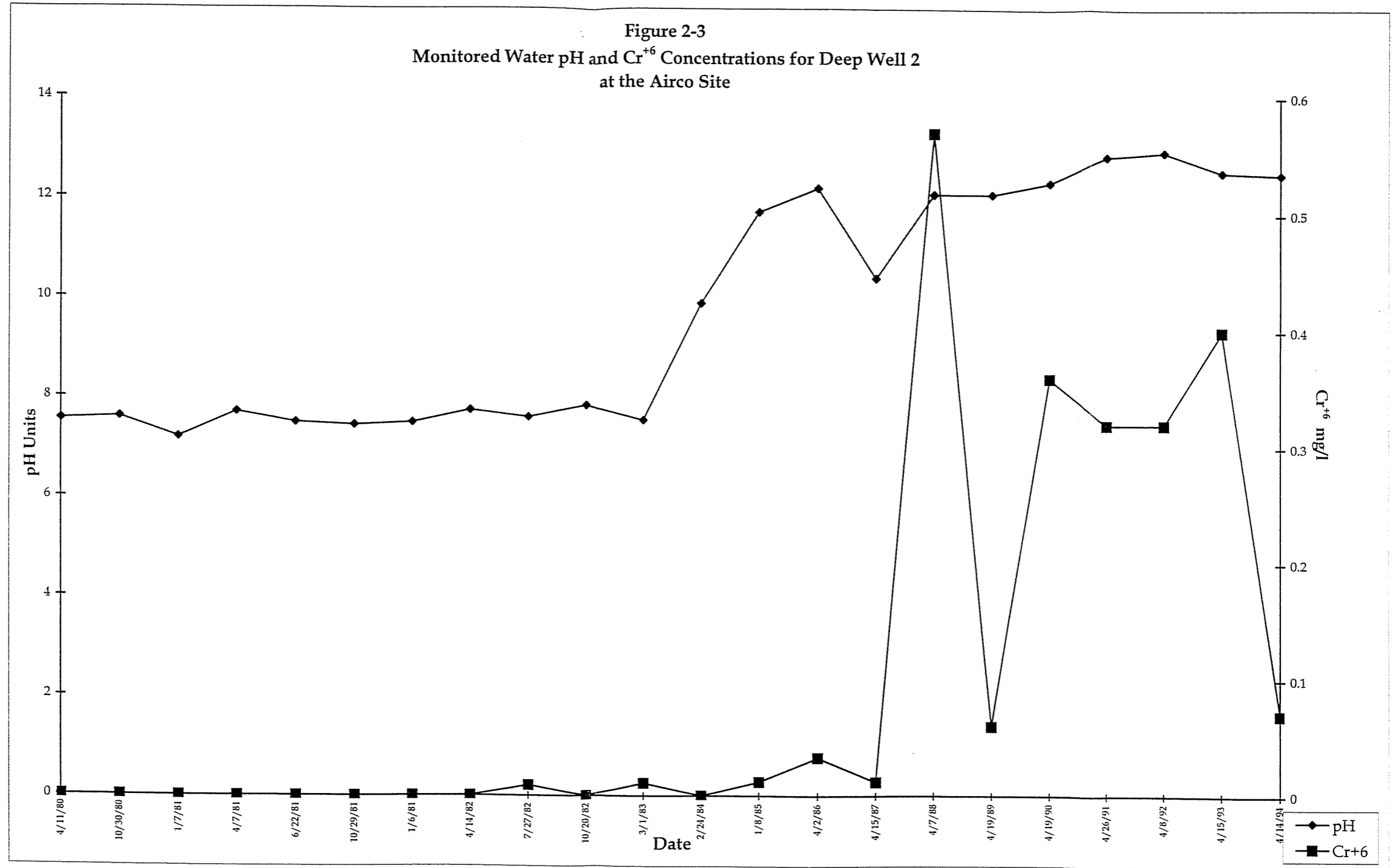


LAN Associates, Inc.
Job #2.3269.6
Summary Graph pH/Cr+6
February 3, 1997

Figure 2-3

**Monitored Water pH and Cr⁺⁶ Concentrations
For
Well 2/Airco Site**

Figure 2-3



LAN Associates, Inc.
Job #23269.6
Summary Graph pH/Cr+6
February 3, 1997

Figure 2-4
Monitored Water pH and Cr⁺⁶ Concentrations
For
Well 2A/Airco Site

Figure 2-4
Monitored Water pH and Cr⁺⁶ Concentrations for Shallow Well 2A
at the Airco Site

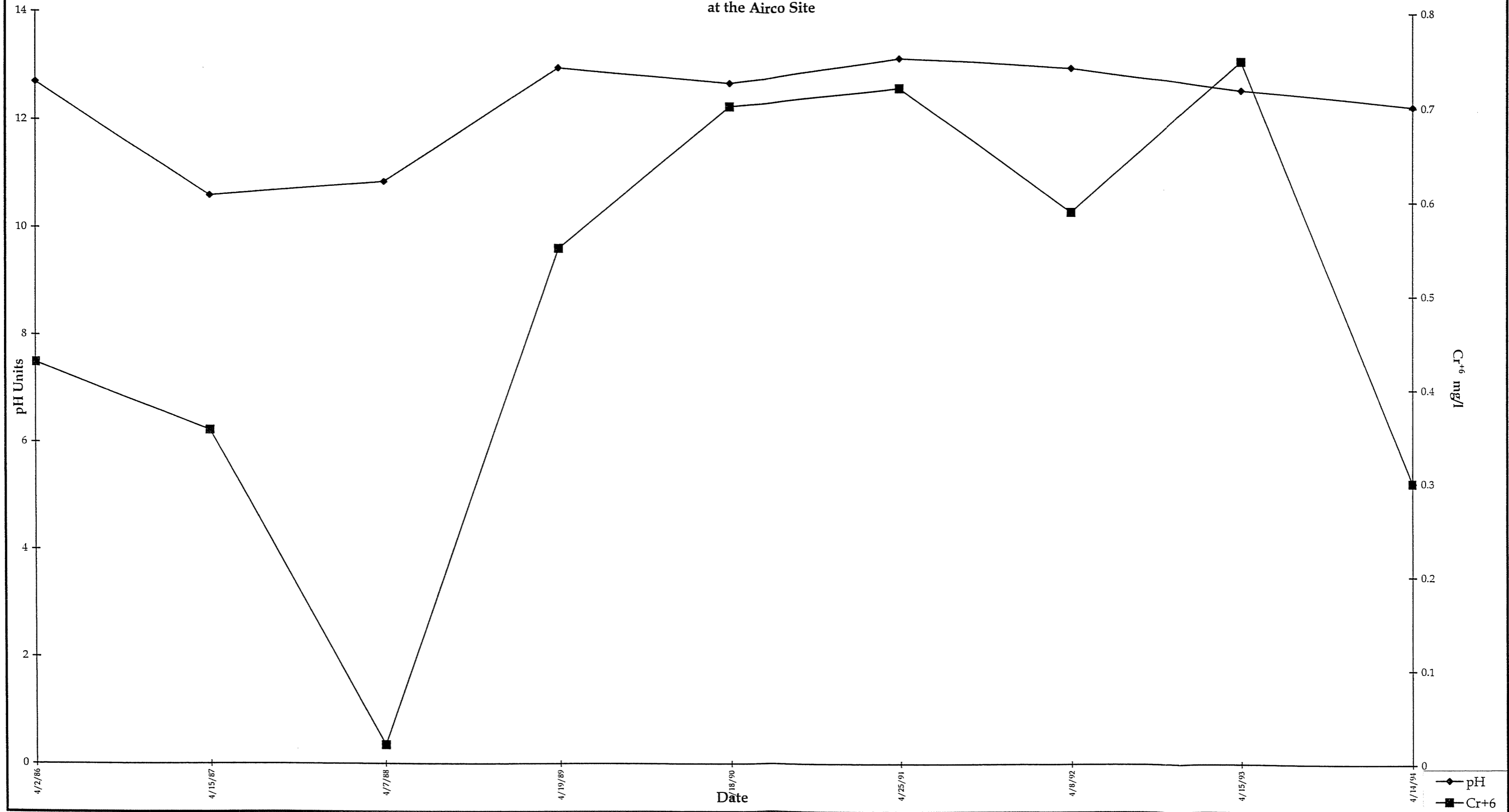
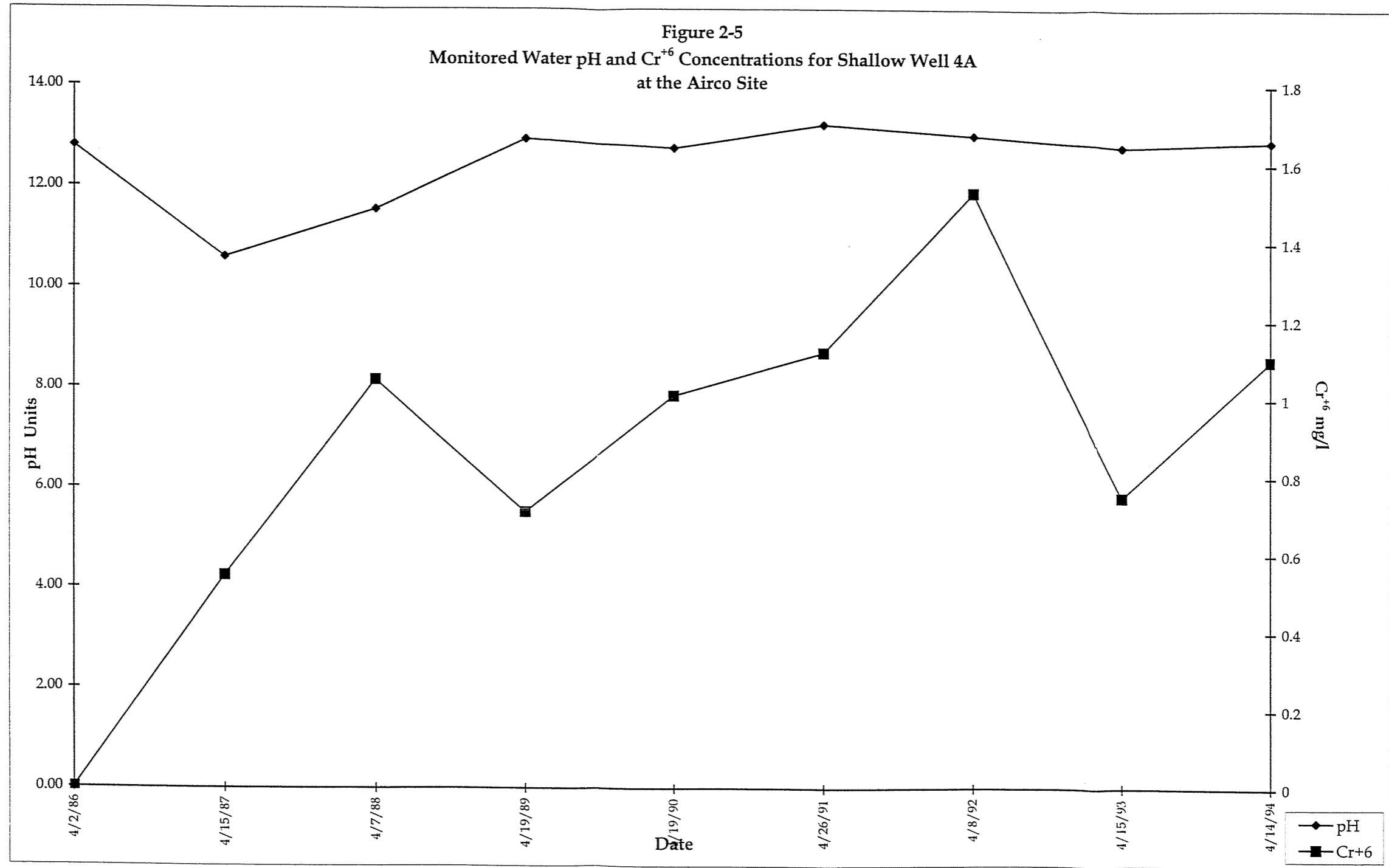


Figure 2-5

**Monitored Water pH and Cr⁺⁶ Concentrations
For
Well 4A/Airco Site**

Figure 2-5

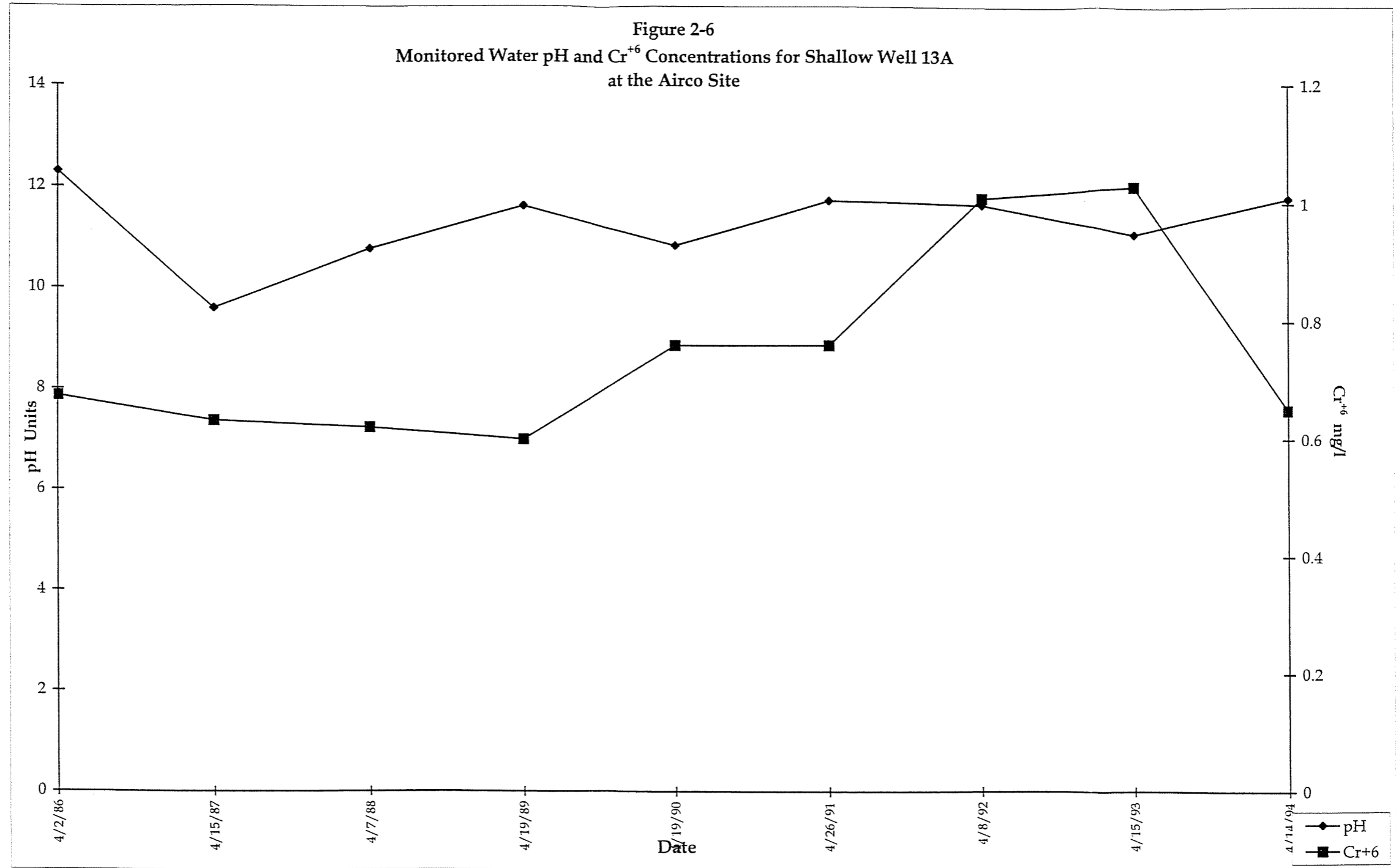


LAN Associates, Inc.
Job #2.3269.6
Summary Graph pH/Cr+6
February 3, 1997

Figure 2-6

**Monitored Water pH and Cr⁺⁶ Concentrations
For
Well 13A/Airco Site**

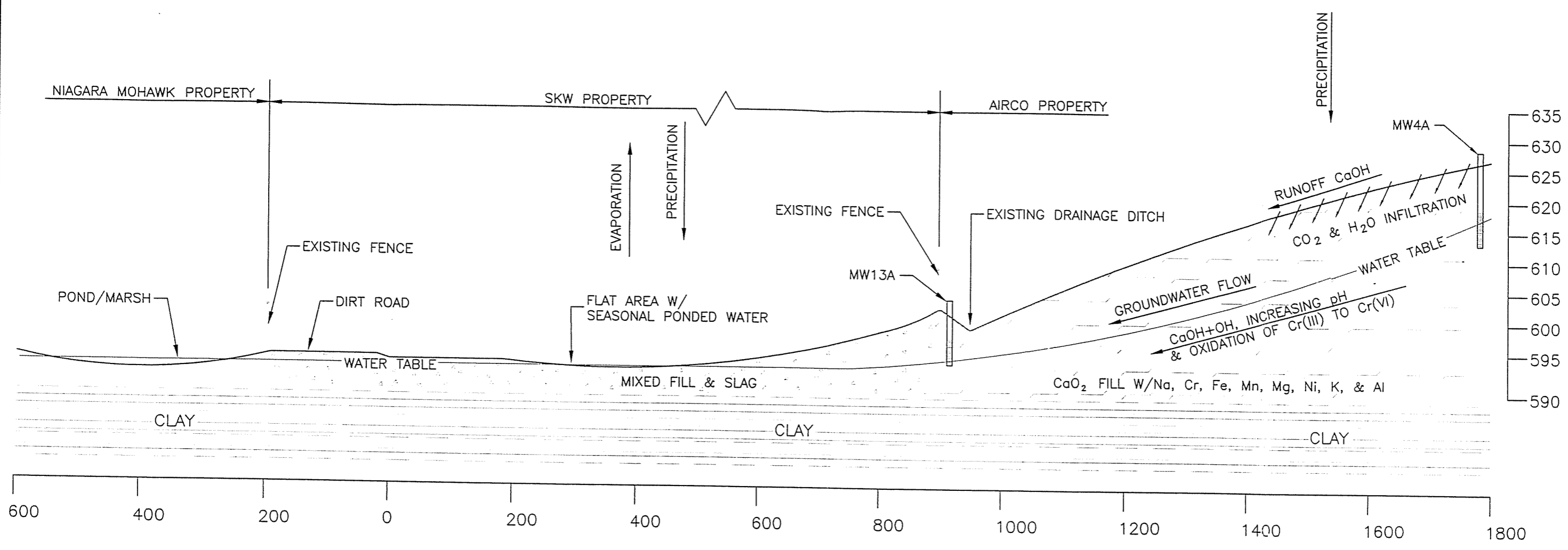
Figure 2-6



LAN Associates, Inc.
Job #2.3269.6
Summary Graph pH/Cr+6
February 3, 1997

Figure 2-7

Conceptual Flow of Shallow Groundwater



CONCEPTUAL FLOW OF SHALLOW GROUNDWATER
SCALE - NONE

SKW METALS & ALLOYS, INC., NIAGARA FALLS, - WITMER ROAD

DATE : 03/05/97
CHECKED : HHH
DRAWN : T JONES
SCALE : PLOT 1:200

LAN ASSOCIATES
environmental and facilities engineering
662 GOFFLE ROAD, HAWTHORNE, NJ 07506-3499 (201) 423-0350

JOB NO. 2.3269.6
DWG. FILE CODE 32696S34
FIGURE NO.

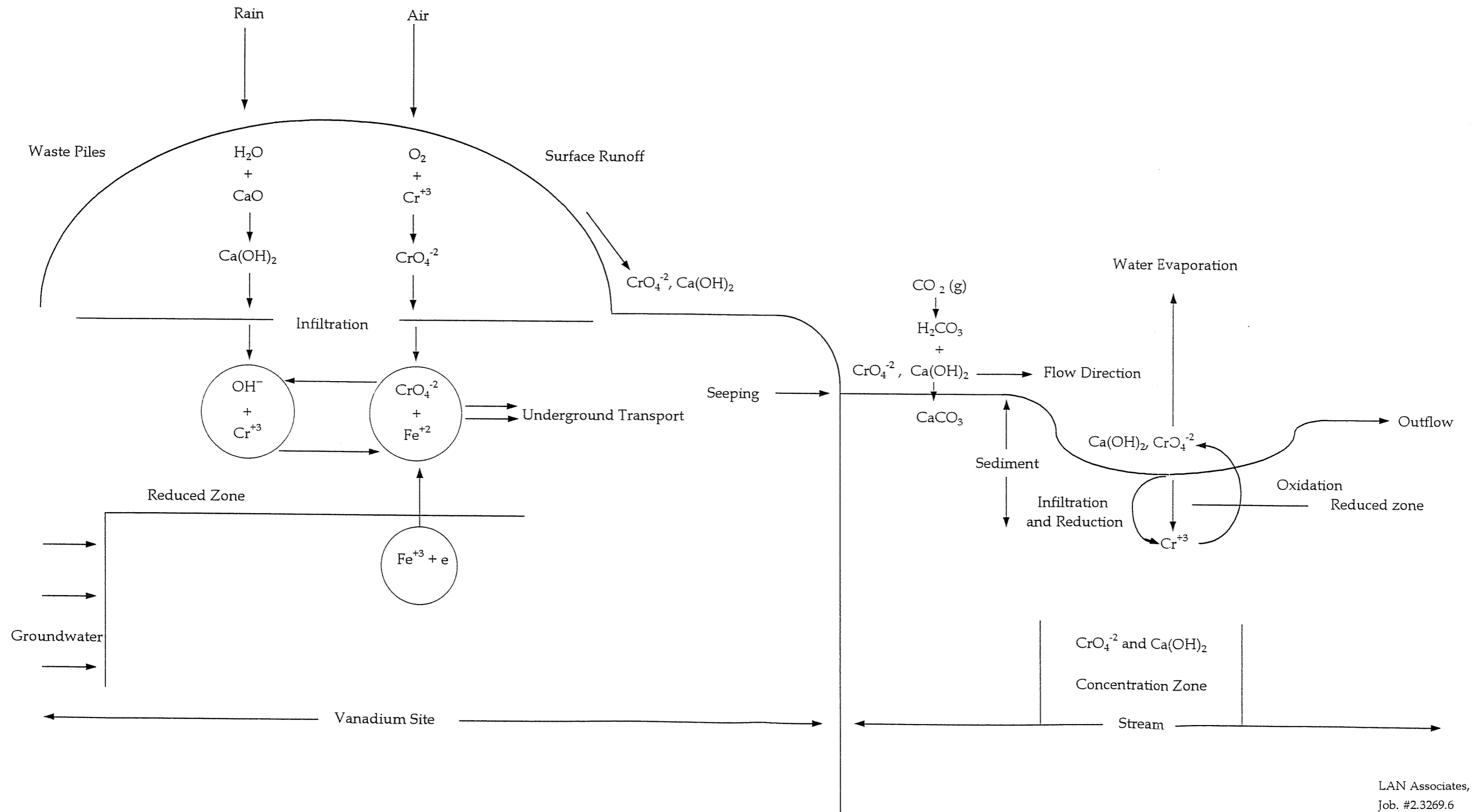
2-7

Figure 3-1

Conceptual Model of Hexavalent Chromium and Lime Transfer

Figure 3-1

CONCEPTUAL MODEL OF HEXAVALENT CHROMIUM AND LIME TRANSFER





Appendix F

Weekly Site Meeting Memos

LAN ASSOCIATES¹/₂

Memo to: File #2.3269.22 Date: July 2, 1998
SKW/Witmer Road Site Improvement

Copies to: Ed Bredniak

From: Skip Hutton Subject: Weekly Site Meeting

On June 26, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting was Mr. Mike Hinton, NYSDEC; Mr. John Kuhn, SLC Constructors; and Skip Hutton, LAN Associates.

Items discussed at the meeting were as follows:

1. The Use of Sterilant

Mr. Hinton stated that a sterilant can be used as long as it is a permitted material that is applied at the proper rate by a person licensed to handle the material.

2. Clay Thickness Verification

Mr. Hinton stated that subgrade in areas of clay cover must be documented via surveyed elevation. The top of clay must also be documented via surveyed elevations. Mr. Kuhn stated that SLC will be completing survey spot-checks in the clay cover area. He stated that the spot check survey data will be given to LAN. LAN will then submit that data to the DEC as documentation of the clay thickness.

3. Lines of Communication

Mr. Hinton stated that he wanted to have copies of all transmittals between SLC and LAN that deal with changes in the specs and/or contract. He also requested copies of the Community Air Monitoring Plan and site Health and Safety Plan. Mr. Hinton was given copies of both plans that are kept on site and was told another copy of the documents would be made and sent to him. Mr. Hinton reviewed the on-site copy of the air monitoring plan and said he did not have any problems with the plan.

At the end of the meeting, it was agreed that next week there would be no site meeting because of the July 4th holiday. The following Friday, July 10th, will be the next scheduled site meeting.

HHH:jw

2.3269.22-M-SiteMtg-980702-hhh

LAN ASSOCIATES^{INC}

Memo to: File #2.3269.22 Date: July 14, 1998
SKW/Witmer Road Construction

Copies to: Ed Bredniak

From: Skip Hutton Subject: Weekly Site Meeting

On July 10, 1998, an 8:30 am site meeting was held at SKW's Witmer Road site. Attending the meeting was Mr. Kevin Glasser, NYSDEC; Mr. John Kuhn, SLC; and Mr. Skip Hutton, LAN Associates.

Items discussed at the meeting were as follows:

Item #1

Mr. Kuhn reviewed the work completed between July 6th and July 10th:

- removed concrete from southwest basin (approximately 80% complete)
- removed/demolished part of ramp
- cut steel supports on ramp
- survey clay curtain wall
- build up subgrade in area of curtain wall
- began clearing and grubbing in area A
- permits obtained for driveway at Witmer Rd.

Item #2

Mr. Kuhn reviewed the work planned for the week of July 13th through July 17th:

- continue cutting and filling operations
- pipe, manhole, and valve to be delivered
- construction of gate from Witmer Road
- busting of concrete
- continued demolition of ramp

Item #3

The issue of where to place excess cut material was discussed. It was agreed that the designed storage capacity of the detention basins would not be impacted if excess cut material is placed on high knolls and ridges above the 604-foot contour.

Item #4

Mr. Glasser requested that the hydraulic hoses on the equipment be inspected and repaired, if leaks are found. Mr. Kuhn agreed to complete the inspection and repair leaks as needed.

Item #5

The issue of air monitoring requirements was discussed. The writer reviewed a phone conversation he had with Mr. Mike Hinton on July 8th. Mr. Glasser stated he also spoke to Mr. Hinton regarding the air monitoring requirements. We agreed that Mr. Hinton wanted the air monitoring to include the following:

1. Placement of one air monitor at the upwind location, one air monitor near the work area, and one air monitor at the downwind location.
2. Every two hours (9:00 am, 11:00 am, 1:00 pm, and 3:00 pm) record in a log book the time weighted average dust level.
3. Also record weather conditions, estimated wind direction and speed, rain, fog, humidity, amount of visible dust, and location of dust meters.
4. Every two hours when the air monitors are checked, changes in the wind direction should also be noted. If the wind direction has changed, the air monitors should be repositioned in new upwind and downwind locations and the new locations noted in the log book.

Item #6

Mr. Kuhn discussed problems with the air monitors during the past two days. The monitors were reading high, so he cleaned the monitors and re-calibrated them. He said the rain and heavy fog during the past few days must have gotten the glass damp. Also, he said the glass was covered with pollen which, along with the moisture, would cause false high readings.

The writer stated that on July 9th, he checked SLC's downwind monitor with his monitor. At 11:15 am, the SLC monitor had a reading of .24 mg/m³ and the LAN monitor had a reading of .00 mg/m³. At 1:20 pm, the SLC monitor read .17 mg/m³ and the LAN monitor read .00 mg/m³. The LAN monitor was recently rented from Hazco Services, Inc. and had been serviced and calibrated by their technicians.

The meeting ended at approximately 9:30 am.

HHH:jw

2.3269.22-M-WklyMtg-980714-hhh

LAN ASSOCIATES^{INC}

Memo to: File #2.3269.22 Date: July 23, 1998
SKW/Witmer Road Construction

Copies to: Mr. Ed Bredniak
Mr. Mike Hinton
Mr. John Kuhn

From: Skip Hutton Subject: Weekly Site Meeting

On July 17, 1998, an 8:30 am site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, NYSDEC; Mr. Kevin Glasser, NYSDEC; Mr. John Kuhn, SLC; and Mr. Skip Hutton, LAN Associates.

The following items were discussed at the meeting.

Item #1—Review of minutes from July 10, 1998 meeting:

- Discuss with Mr. Hinton and obtain his approval of where excess material will be placed. Mr. Hinton agreed that excess material could be placed on high areas above the 604-foot contour elevation.
- It was reported to Mr. Hinton that the leaks in the hydraulic hoses had been fixed.
- Mr. Hinton stated that air monitoring meters must be set out before the start of work. Also, if there are two different areas where work is being completed that produces dust, then the NYSDEC requires an air monitoring meter downwind of each work area.

Mr. Hinton stated that calibration of the air monitoring meters must be done at the manufacturer's required frequency, and both cleaning and calibration must be recorded in the air monitoring log book.

Mr. Hinton did state that if these conditions were met, the SLC air monitoring plan would be acceptable.

Item #2—Mr. Kuhn described the work completed from July 13th to 17th as follows:

- the southwest sub basin is about 95% at subgrade.
- more concrete has been uncovered in the east portion of the site.
- concrete slabs have been partially removed
- several footers have been excavated around
- test pits in the area around the curtain wall have been completed
- subgrade in southwest basin has been surveyed

LAN ASSOCIATES¹

- ramp at center of site has been cut down

Item #3—Mr. Kuhn then described the work planned for the following week:

- continue concrete removal
- continue cut and fill
- install driveway off Witmer Road
- install tie-in pipe and manhole

Mr. Kuhn stated that the work is behind schedule approximately one week. Mr. Hinton requested that SLC provide an updated schedule every month.

Mr. Kuhn explained that on Thursday, three people were asked to leave the site because they did not have OSHA 40-hour Health and Safety training. New workers were brought on-site the following day that have the required training.

Item #4—Mr. Hinton requested that LAN provide him, at the next meeting, with the following items:

- Minutes from first weekly meeting
- Drawing with basin numbers per the hydrographs submitted by LAN
- Copies of approved drawings and material specifications for the tie-in pipe, manhole, and valve
- Mini-ram air monitoring meter with manufacturer's re-calibration requirements

The meeting ended at approximately 10:00 AM with Mr. Hinton requesting the next meeting be held in LAN's office trailer. Mr. Hinton also requested that the site screening report be submitted within the next two weeks.

HHH:jw

2.3269.22-M-WklyMtg-980723-hhh

LAN ASSOCIATES^{INC}

Memo to: File #2.3269.22 Date: July 30, 1998
SKW/Witmer Road Construction

Copies to: Ed Bredniak, SKW
Mike Hinton, NYSDEC
John Kuhn, SLC

From: Skip Hutton Subject: Weekly Site Meeting Held on
July 24, 1998

On July 24, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, NYSDEC; Mr. John Kuhn, SLC; and Mr. Skip Hutton, LAN Associates.

The following items were discussed at the meeting:

Item #1 – Review of Minutes from July 17, 1998

- 1) The writer reported he talked to Mr. Tom Jones regarding the placement of excess material above the 604-foot contour. Mr. Jones informed the writer that capacity of the site was based on holding water at a maximum elevation of 601.5 feet. The writer stated that anything above the 602-foot contour could be used for storage. Mr. Hinton did not have a problem with this. Mr. Hinton did ask what the estimated volume of the excess material was. The writer replied approximately 10,000 to 12,000 cy.
- 2) We discussed the timing and scheduling of work. Mr. Kuhn explained that the concrete removal and site grading were his top priority, and that the driveway and tie-in would be done when it was convenient, or when there was a break in the other work.

Item #2 – New Business

- 1) Mr. Hinton explained that Ms. Dawn Hettrick, NYSDEC Albany office, was on site Wednesday, July 22nd. Mr. Hinton stated that Ms. Hettrick was satisfied with SLC's Community Air Monitoring Plan. Mr. Hinton reminded us to keep up the air monitoring.
- 2) Mr. Hinton asked Mr. Kuhn about the schedule. He was informed that SLC is still about one week behind and that SLC has extended the work hours to five 10-hour days. They have also rented a larger backhoe to speed up the work.

- 3) The writer explained to Mr. Hinton that some dark gray material had been excavated in basin #5. The material had been sampled. It will be analyzed for grain size and crystal structure. A sample for chromium analysis will be held. Mr. Hinton stated that he would rather have the chromium sample analyzed now. The writer agreed and stated that he would request a fast turnaround from the lab.
- 4) The writer told Mr. Hinton that two drums were found in basin #2. The drums had been buried under a concrete slab and contained small metallic beebees/shot and metallic slag. The writer explained that he intended to check the drums for radiation and analyze the material for metals.
- 5) Mr. Hinton and the writer then walked a portion of the site. Mr. Hinton inspected the dark gray soil and the two drums with metallic material. The writer also showed Mr. Hinton a few empty drums that were crushed. The writer explained that they were previously shown to Mr. Kevin Glasser and we agreed that the empty drums could be scrapped or disposed of in a non-hazardous waste landfill.

The meeting ended at approximately 10:00 AM.

HHH:jw

2.3269.22-M-WklyMtg-980729-hhh

LAN ASSOCIATES¹/_c

Memo to: File #2.3269.22
SKW/Witmer Road Construction

Date: August 6, 1998

Copies to: Mr. Mike Hinton
Mr. Ed Bredniak
Mr. John Kuhn

From: Skip Hutton

Subject: Weekly Site Meeting

On July 31, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, NYSDEC; Mr. Kevin Glasser, NYSDEC, Mr. John Kuhn, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the July 23rd meeting

- The minutes were reviewed and approved without change or comment.

Item #2 – New Business Discussed During the July 31st meeting

- Mr. Hinton asked for an updated work schedule from Mr. Kuhn. Mr. Kuhn responded that an updated schedule is prepared at the end of each month and would be available at the August 14th meeting.
- Mr. Hinton stated that the NYSDEC would be collecting surface soil samples after the site is contoured to subgrade. The soil samples will be analyzed by the NYSDEC for the 13 TAL metals. Mr. Hinton explained that this work is not part of the IRM work or the Consent Order Agreement. Mr. Hinton stated the sampling and analysis will provide data for future site re-classification and will help answer questions regarding possible human exposure.
- The writer reviewed the total metals results for samples collected from drum #1 and drum #2. Mr. Hinton also requested that a TCLP analysis be completed on the drum material to determine if the material is characteristically hazardous. Based on the TCLP results, the material in the drums could either be left on site, disposed off site in a non-hazardous landfill, or disposed off site in a hazardous landfill. Mr. Hinton also stated, if necessary, the NYSDEC may require a confirmational soil sample from the box of the excavation around the drums. If necessary, the soil sample would be analyzed for total metals and/or TCLP metals.
- The writer told Mr. Hinton that baghouse bags containing dust materials had been found in Area A. The writer stated that the dust material had already been sampled and sent out for analysis.
- The writer explained that since the material was known to be baghouse dust, a total chromium analysis of greater than approximately 700 mg/kg would indicate that the material

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was ferrochromium dust or ferrosilica chromium dust. If the chromium results were closer to approximately 100 to 400 mg/kg, it would indicate a ferrosilica baghouse dust material.

- Mr. Hinton stated that Mr. Glasser would return to the site that afternoon and collect split samples of the baghouse dust material for confirmation analysis by the State.

The meeting ended at approximately 10:00 AM.

HHH:jw

2.3269.22-M-WklyMtg-980731-hhh

LAN ASSOCIATES

Memo to: File #2.3269.22 Date: August 13, 1998
SKW/Witmer Road Construction

Copies to: Ed Bredniak
Mike Hinton
John Kuhn

From: Skip Hutton Subject: Weekly Site Meeting

On August 7, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, NYSDEC; Mr. John Kuhn, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the July 31, 1998 Meeting

- The minutes were reviewed and approved without change or comments.

Item #2 – New Business Discussed During the August 7, 1998 Meeting

- The writer requested that he and Kevin Glaser re-sample and split the samples at locations Mr. Glaser sampled on August 4, 1998. Mr. Hinton suggested that the DEC split the existing samples with LAN and no re-sampling be done. The writer agreed to Mr. Hinton's suggestion.
- The writer asked Mr. Hinton how the disposal of ferrosilicon dust and the two drums should be handled. Mr. Hinton stated that the material should be classified as either hazardous or non-hazardous based on the results of TCLP analysis. The material should then be sent to an appropriate landfill.
- The writer then showed Mr. Hinton a re-design drawing of the south access road area. The drawing shows the location of the road, clay cut-off wall, and south berm. The drawing also shows surface slopes and a drainage divide at the top of the south berm. Mr. Hinton reviewed and approved the drawing.
- The writer showed Mr. Hinton a clay sample collected from the new borrow pit located on Grand Island. The writer showed Mr. Hinton test analyses for grain size moisture, density, and permeability. The writer explained that SKW would be conducting additional tests on the clay to confirm its suitability. Mr. Hinton said he had no problem with the clay.
- Mr. Hinton asked Mr. Kuhn how the work schedule was going. Mr. Kuhn gave Mr. Hinton a revised work schedule and stated that he expects to start bringing in clay in two weeks. Mr. Hinton indicated that would be fine.

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- The writer and Mr. Hinton then discussed QA/QC requirements for the installation of the clay cover. Mr. Hinton stated that he was most concerned about the thickness and permeability of the clay. The DEC requires moisture and density determinations on a 100-foot grid during placement of the clay cover. Thickness will also be determined on a 100-foot grid by surveying the top of subgrade and the top of clay, then calculating the thickness. The quantity control standard for clay thickness is $\pm .1$ foot. Mr. Hinton said that Shelby tube samples are not required by the DEC, but SKW can determine how many tubes they want to take for their own verification of permeability. Mr. Hinton stated that all QA/QC data collected by SKW must be reported to the DEC and that an Engineer's certification is required with the final report.

The meeting ended at approximately 10:30 AM.

HHH:jw

2.3269.22-M-WklyMtg-980813-hhh

LAN ASSOCIATES^I_{NC}

Memo to: File #2.3269.22
SKW/Witmer Road Construction

Date: August 26, 1998

Copies to: Ed Bredniak
Mike Hinton
John Kuhn

From: Skip Hutton

Subject: Weekly Site Meeting

On August 14, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, NYSDEC; Mr. John Kuhn, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the August 7, 1998 Meeting

- The minutes were reviewed and approved without change.

Item #2 – New Business Discussed During the August 14, 1998 Meeting

- Mr. Hinton asked that Kevin Glaser be given a copy of the test results for clay barrow material.
- Mr. Hinton stated that construction of the clay liner can be completed in 6" or 9" lifts, if a test pad is completed to verify moisture and density.
- Mr. Kuhn informed Mr. Hinton that SLC would start laying clay on Monday. Mr. Hinton asked if the subgrade was ready. Mr. Kuhn stated that there was a small amount of hand picking of rocks, metal, and debris left to do and part of the final subgrade survey needed to be completed.

The meeting ended at approximately 10:30 AM.

HHH:jw

2.3269.22-M-WklyMtg-980814-hhh

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Memo to: File #2.3269.22
SKW/Witmer Road Construction

Date: August 26, 1998

Copies to: Ed Bredniak
Mike Hinton
John Kuhn

From: Skip Hutton

Subject: Weekly Site Meeting

On August 21, 1998, a 9:00 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, NYSDEC; Mr. Kevin Glaser, NYSDEC; Mr. John Kuhn, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the August 14, 1998 Meeting

- The writer's hand written notes were reviewed.

Item #2 – New Business Discussed During the August 21, 1998 Meeting

- Mr. Hinton pointed out that any future subsurface work must be done carefully. If bags of dust or suspected dust material are found, the work area will have to be sampled and evaluated.
- The writer was asked to give Kevin Glaser a copy of the moisture/density results for the clay soil sample collected from the clay barrow pit.
- The writer was asked to provide Mike Hinton a copy of all results for all soil samples collected on site.
- Mr. Kuhn also requested a copy of all the soil sample results.
- Mr. Hinton stated that if additional TCLP results indicate the presence of hazardous waste, one option that may be possible for SKW to cover that material with 2 feet of soil (typically, 18" of clay and 6" of top soil).
- Mr. Hinton recommended that LAN use a site map to show which areas of the subgrade and clay lifts have been approved.
- Mr. Hinton, Kevin Glaser, and the writer then walked the site. Mr. Hinton asked that any bighthouse bags laying on the surface be picked up. The writer explained that only empty bags had been left on the surface. Mr. Hinton said regardless if the bags are empty or not they should be picked up. The writer agreed with Mr. Hinton's request, and Mr. Kuhn stated that he would see that the work was done.

The meeting ended at approximately 10:30 AM.

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Memo to: File #2.3269.22 Date: September 3, 1998
SKW/Witmer Road Construction

Copies to: Ed Bredniak
Mike Hinton
John Kuhn

From: Skip Hutton Subject: Weekly Site Meeting

On August 28, 1998, a 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, NYSDEC; Mr. Kevin Glaser, NYSDEC; Mr. John Kuhn, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the August 21, 1998 Meeting

- The minutes were reviewed and approved without change or comment.

Item #2 – New Business Discussed During the August 28, 1998 Meeting

- Mr. Hinton reminded the writer that the hazardous waste in the roll-off containers needed to be removed from the site within 90 days.
- Mr. Kuhn reviewed the completed work. He said that 50% of cut-off wall 'B' was completed, and 60% of the clay was completed.
- Mr. Kuhn said SLC slipped about one week on their work schedule due to the hazardous waste issues associated with the baghouse dust.
- Mr. Kuhn said they plan to start bringing in top soil the middle of next week. He said SLC will track the top of the clay with the dozer to prepare it for top soil. He also said that SLC will keep the clay wet until they lay the top soil.
- Mr. Hinton asked Mr. Kuhn about the completion of dust logs. Mr. Kuhn said that the information contained on Side 2 of the dust logs was not copied because of a problem with the photo copier. He told Mr. Hinton that he would go back and copy the information on the back side of the log.
- The moisture/density results from GZA and Glynn were reviewed and found to be in good agreement.

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- A review of the lab analysis was completed. It was found that some variation in the TCLP results did occur. Mr. Glaser stated that the variation observed was fairly common.
- Mr. Hinton questioned the lead results for sample LS1. The writer stated he would check with the lab for clarification.
- Mr. Hinton requested and was given a site map that showed the location of samples collected for laboratory analysis.
- Mr. Hinton requested that Mr. Glaser be given sheets showing the approval of subgrade and clay lifts.

The meeting ended at approximately 10:30 AM.

HHH:jw

2.3269.22-M-WklyMtg-980828-hhh

Memo to: File #2.3269.22
SKW/Witmer Road Construction

Date: September 10, 1998

Copies to: Ed Bredniak
Mike Hinton
John Kuhn
Art Pethybridge

From: Skip Hutton

Subject: Weekly Site Meeting

On September 4, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Kevin Glaser, NYSDEC; Mr. Art Pethybridge, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the August 28, 1998 Meeting

- The minutes were reviewed and approved without change or comment.

Item #2 – New Business Discussed During the September 4, 1998 Meeting

- Mr. Pethybridge stated that cut-off wall "B" was 100% completed, cutoff wall "A" was just started this morning, and the clay area was approximately 80% complete.
- Mr. Pethybridge asked Mr. Glaser if SLC could put down clay in 9-inch lifts. Mr. Glaser said a test pad would have to be constructed, then tested to show that the specifications can be met by installing clay in 9-inch lifts.
- Mr. Pethybridge reviewed the work schedule and stated that SLC made good progress last week and have probably caught up a day or two.
- Mr. Glaser then discussed desiccation problems and the need to add water to the clay. Mr. Glaser said he had observed at other project large desiccation cracks four to five inches deep where the contractor had to pull up a lift and re-apply the clay. This warning was noted by Mr. Pethybridge and the writer.
- Mr. Glaser and the writer then inspected the work areas. No areas of concern or problems were noted by Mr. Glaser.

The meeting ended at approximately 10:30 AM.

HHH:jw

2.3269.22-M-WklyMtg-980828-hhh

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Memo to: File #2.3269.22
SKW/Witmer Road Construction

Date: September 14, 1998

Copies to: Ed Bredniak
Mike Hinton
Art Pethybridge

From: Skip Hutton

Subject: Weekly Site Meeting

On September 11, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, NYSDEC; Mr. Kevin Glaser, NYSDEC; Mr. Art Pethybridge, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the September 4, 1998 Meeting

- The minutes were reviewed and approved without change or comment.

Item #2 – New Business Discussed During the September 11, 1998 Meeting

- Mr. Pethybridge stated that SLC had completed about 75% of the top soil placement. The original source of top soil was cut off by the owner. SLC has found a new source of top soil and collected soil samples for analysis. The analytic results are due next Tuesday or Wednesday. In the meantime, SLC will continue to water the top clay twice daily.
- Mr. Pethybridge stated that cut-off wall "A" is approximately 50% complete. Construction of the wall was stopped because of the large amount of water entering the trench excavation. Mr. Pethybridge explained that he was concerned about worker safety issues, water handling issues, and constructibility issues. The writer told Mr. Hinton that the water had a pH of 12.4. Mr. Hinton stated that the water and pH were issues we were all aware of at the start of the project.
- Mr. Pethybridge said that SLC is currently installing pipes to tie the basins together. Some site grading is also being done in the northwest area of the property.
- Mr. Pethybridge told Mr. Hinton that he anticipates the project will be completed during the third week of October. Mr. Pethybridge said he would provide Mr. Hinton with a revised schedule at the next weekly meeting.
- Mr. Pethybridge told Mr. Hinton that SLC had obtained three replacement air monitors for the community air monitoring. The monitors will replace the original three monitors which had become less reliable, possibly due to battery problems.

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- Mr. Hinton reminded SLC to continue watering the exposed clay area.

All persons attending the meeting then walked the site and inspected the area where cut-off wall "A" was stopped. Three options for dealing with the water in the cut-off wall trench were discussed. Mr. Hinton stated that the water from the trench should not be allowed to run off site. He agreed with Mr. Pethybridge that the best option, and one that he would accept, would be for SLC to dig a shallow trough and/or berm to contain and direct the water displaced from the trench toward the west, along the south access road to a sump. There, a pump would move the water to Basin #5 and discharge it. The interconnecting pipes at both ends of Basin #5 would have to be blocked off so the water was contained. The water would be allowed to infiltrate back into the soil which would also serve to buffer the pH. Mr. Pethybridge indicated that he would use this plan to formulate a method for completing cut-off wall "A".

The meeting ended at approximately 10:30 AM.

HHH:jw

2.3269.22-M-WklyMtg-980911-hhh

LAN ASSOCIATES^I_N_C

Memo to: File #2.3269.22
SKW/Witmer Road Construction

Date: September 23, 1998

Copies to: Ed Bredniak
Mike Hinton
Art Pethybridge

From: Skip Hutton

Subject: Weekly Site Meeting

On September 18, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Kevin Glaser, NYSDEC; Mr. Art Pethybridge, Mr. John Kuhn, Mr. Scott Pfuhl, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the September 11, 1998 Meeting

- The minutes were reviewed and approved without change or comment.

Item #2 – New Business Discussed During the September 18, 1998 Meeting

- Mr. Scott Pfuhl was introduced to Kevin Glaser as SLC's assistant project manager. Mr. Pethybridge explained that Scott will do the community air monitoring, and will assist Mr. Pethybridge. Mr. Pfuhl will be working at the site full time, along with Mr. Pethybridge. Mr. Pfuhl has replaced the batteries in the three air monitors.
- Mr. Pethybridge stated that top soil has been placed nearly 100% over the approved clay area. They are now placing top soil over approved subgrade material to the west of the cut-off wall.
- Mr. Pethybridge explained that work on cut-off wall "A" has not restarted, but Mr. Pethybridge is developing an operational plan that controls water encountered during the excavation of the wall.
- Mr. Pethybridge explained that the basin drainage pipes and manhole connection are 90% completed.
- Mr. Pethybridge then presented LAN and the DEC a revised project schedule which calls for the completion of work during the third week of October.
- Mr. Pfuhl stated that he shipped out SLC's three monitors for repair and he will continue to use three rented monitors until the SLC monitors are returned.
- Mr. Pfuhl explained that the railroad ties stockpiled by Witmer Road are to be loaded out today and sent to Lake View Landfill in Erie, Pennsylvania.

- Mr. Pfuhl explained that next week, SLC will bring a chipper on site to chip trees and branches. The chipped material will be spread in a thin layer over the mound area near the Stollberg facility. SLC also plans to start the hydroseed operation next week. They will apply lime with the hydroseed at a rate of 4 tons/acre.
- Mr. Hutton reviewed the UST removal from the Stollberg property. Green Environmental, Inc. was subcontracted by SKW to complete this work. Liquid from the tank had been removed. Disposal of the liquid is pending lab analysis and approval. The tank was excavated and removed to be cleaned, then scrapped. Soil was excavated from the base and walls of the tank pit. The soil was placed on plastic, then covered with plastic when the excavation was completed. The excavated soil was sampled and will be analyzed to determine the proper disposal method. Also, a composite soil sample was collected from the four side walls and bottom of the excavated tank pit. The excavation was then backfilled and compacted with No. 2 crushed stone.

After the meeting, all persons walked to the center of cut-off wall "A" and discussed the options for handling water that enters into the cut-off wall excavation. Mr. Pethybridge explained that for liability and operations, it would be preferable to direct the water to the east into basin #2 and not to the west. The method and operation was discussed with Mr. Glaser who said it was fine with him, as long as the water is contained on-site. He also said that he would discuss the issue with Mr. Hinton on Monday.

The meeting ended at approximately 10:30 AM.

HHH:jw

2.3269.22-M-WklyMtg-980918-hhh

Memo to: File #2.3269.22 Date: October 1, 1998
SKW/Witmer Road Construction

Copies to: Ed Bredniak
Mike Hinton
Art Pethybridge

From: Skip Hutton Subject: Weekly Site Meeting

On September 25, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, NYSDEC; Mr. Art Pethybridge, Mr. John Kuhn, Mr. Scott Pfuhl, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the September 18, 1998 Meeting

- The minutes were reviewed and approved without change or comment.

Item #2 – New Business Discussed During the September 25, 1998 Meeting

- Mr. Pethybridge explained the work completed on cut-off wall A. He said that SLC is controlling the water in the cut-off wall trench by pumping the water to the discharge trench in area A. Then, SLC is backfilling the trench with clay and compacting it into place with the trackhoe. The trench is approximately six (6) feet wide and extends at least one (1) foot into the native clay. SLC is also using the trackhoe with hydraulic breaker to bust the hard slag prior to excavating. SLC is also bringing a larger trackhoe to speed up the excavation work.
- Mr. Pethybridge also stated that subgrade is completed for the area east of the landfill and basins 2, 3, 4, and 5. Top soil has been placed in most of these areas and hydroseeding was completed on Thursday, September 24th.
- Mr. Pethybridge stated that SLC's scheduled completion is still the third week of October, 1998.

After the meeting, Mr. Hinton, Mr. Pethybridge, and the writer inspected the cut-off wall work area. Mr. Hinton was satisfied with the proposed construction methods and encouraged all parties to continue on with the cut-off wall construction.

The meeting ended at approximately 10:30 AM.

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Memo to: File #2.3269.22
SKW/Witmer Road Construction

Date: October 8, 1998

Copies to: Ed Bredniak
Mike Hinton
Art Pethybridge

From: Skip Hutton

Subject: Weekly Site Meeting

On October 5, 1998, a 10:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Kevin Glaser, NYSDEC; Mr. John Kuhn, Mr. Scott Pfohl, SLC; Mr. Matt Klettke, Klettke, Inc.; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the September 25, 1998 Meeting

- The minutes were reviewed and approved without change or comment.

Item #2 – New Business Discussed During the October 5, 1998 Meeting

- The issue of final drawings to be submitted to the NYSDEC was discussed. Mr. Glaser said that "Record Drawings" are not required. An "as-built" drawing of the SKW property will be constructed with elevation shown at the one-foot contour interval. Mr. Klettke said that he would provide LAN a cost estimate to complete this work.
- Mr. Pfohl stated that SLC has completed the 6-foot wide section of cut-off wall A. He said that on Tuesday (Oct. 6, 1998), the 2-foot wide excavator will be on-site and they will begin the 2-foot wide portion of the wall. He stated that SLC had completed the placement of top soil in basins 3, 4, 5, and 6. He also stated that the subgrade was 90% complete and that seeding was 70% complete.
- Mr. Pfohl said that this week, SLC intends to raise the well ballards and one monitoring well, finish the subgrade and top soil, and continue on cut-off wall A. He also said that removal of waste containers would continue.
- Mr. Glaser asked when the soil was removed from the tank excavation on the Stollberg property, and for documentation of the analytic results. The writer told him the soil was removed on September 25, 1998, and later gave him a copy of the lab results. The writer also informed Mr. Glaser that approximately 30 cubic yards of discolored soil with a slight petroleum odor had been excavated from the east end of basin 6. The soil was loaded into two roll-off containers and will be analyzed to determine proper disposal.

The meeting ended at approximately 11:30 AM.

HHH:jw

2.3269.22-M-WklyMtg-981005-hhh

LAN ASSOCIATES¹_C

Memo to: File #2.3269.22 Date: October 15, 1998
SKW/Witmer Road Construction

Copies to: Ed Bredniak
Mike Hinton
Art Pethybridge

From: Skip Hutton Subject: Weekly Site Meeting

On October 9, 1998, a 10:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Kevin Glaser, NYSDEC; Mr. John Kuhn, Mr. Scott Pfohl, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the October 5, 1998 Meeting

- The minutes were reviewed. Two changes to the New Business were made (see attached revised minutes).

Item #2 – New Business Discussed During the October 9, 1998 Meeting

- The writer stated that results of soil analysis from the eastern edge of Basin 6 indicated no detection of TCLP benzene and a flash point greater than 200° F.
- Mr. Pfohl stated that SLC found a small portion of the 6-foot wide cut-off wall A that was not completed. SLC corrected it by completing the 6-foot wide portion.
- Mr. Pfohl stated that SLC started to push off stockpiled clay into the first 6-inch lift in the southeast area.
- Mr. Pfohl stated that the monitoring well and ballard extension were completed, and that five containers of lead containing waste had been removed from the site and taken to the Chemical Waste Management Hazardous Waste Landfill in Model City, New York.
- Mr. Pfohl stated that two containers of petroleum contaminated soil should be removed Monday or Tuesday.
- Mr. Pfohl stated that SLC was partially rained out Thursday and Friday. Due to the wet working conditions, they were working with a smaller crew size.

- Mr. Pfohl reviewed the work plan for the week of October 10-16:
 1. Complete the installation of the 2-foot portion of cut-off wall A,
 2. Finish grading subgrade,
 3. Complete the installation of the clay cover,
 4. Finish the top soil installation

- Mr. Pfohl stated that SLC intends to complete the project in the next two weeks (depending on the weather).

The meeting ended at approximately 9:30 AM.

HHH:jw

2.3269.22-M-WklyMtg-981009-hhh

Attachment: Revised October 5, 1998 Minutes

Memo to: File #2.3269.22
SKW/Witmer Road Construction

Date: October 22, 1998

Copies to: Ed Bredniak
Mike Hinton
Art Pethybridge

From: Skip Hutton

Subject: Weekly Site Meeting

On October 16, 1998, a 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, NYSDEC; Mr. Art Pethybridge, Mr. John Kuhn, Mr. Scott Pfohl, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the October 9, 1998 Meeting

- The minutes were reviewed and approved without change.

Item #2 – New Business Discussed During the October 16, 1998 Meeting

- Mr. Pfohl reviewed the work completed from October 10th through 15th. He stated that SLC completed cut-off wall A and placed clay over the southern portion of Basin 2, the south berm, and the access road.
- Mr. Hutton asked Mr. Hinton about the failed permeability test from cut-off wall B. Mr. Hinton believes the test is an anomaly based on the number of tests that passed in the 10⁻⁸ to 10⁻⁹ cm/sec range. Because there was only one failure, Mr. Hinton stated that the NYSDEC would approve the cut-off wall work completed as part of the IRM requirements.
- Mr. Hutton stated that per SKW's request, SLC will re-test the area where the failed permeability sample was collected to confirm the permeability results.

After the meeting, Mr. Hinton and the writer walked over the site and observed the on-going and completed work. Mr. Hinton left the site at approximately 10:00 am.

HHH:jw

2.3269.22-M-WklyMtg-981016-hhh

LAN ASSOCIATES¹_c

Memo to: File #2.3269.22
SKW/Witmer Road Construction

Date: October 29, 1998

Copies to: Ed Bredniak
Mike Hinton
Art Pethybridge

From: Skip Hutton

Subject: Weekly Site Meeting

On October 23, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, Mr. Dan King, NYSDEC; Mr. Art Pethybridge, Mr. John Kuhn, Mr. Scott Pfohl, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the October 16, 1998 Meeting

- The minutes were reviewed and approved without change.

Item #2 – New Business Discussed During the October 23, 1998 Meeting

- Mr. Pethybridge discussed the failed permeability test from cut-off wall B and described SLC's plans to re-test the area and correct the problem. Mr. Pethybridge stated that the area of the failed test occurs in the swale of the southwestern portion of Basin 2. Mr. Pethybridge stated that he believes the failure could be related to high moisture content in the area or it could just be a sampling problem. Mr. Pethybridge then described how a second Shelby tube was collected from the center of the cut-off wall.
- Mr. Pethybridge and Mr. Pfohl described the work that was completed during the previous week which mainly consisted of grading subgrade and placing top soil.
- Mr. Pethybridge and Mr. Pfohl discussed the work plan for the following week which included finishing the top soil placement and hydroseeding.
- Mr. Kuhn asked Mr. Hinton if the stone from the truck tire wash pad could be used on site as fill.
- Mr. Hinton said that SKW should first run total metal for the 8 RCRA metals and TCLP metals. Mr. Hinton said if the TCLP results passed, then the stone could be used on site.
- Mr. Hutton stated that he planned to complete a punch list for SLC on Monday after the top soil installation is completed.

After the meeting, Mr. Hinton and Mr. King walked the site and observed the completed and ongoing work.

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Memo to: File #2.3269.22
SKW/Witmer Road Construction

Date: November 12, 1998

Copies to: Ed Bredniak
Mike Hinton
Art Pethybridge

From: Skip Hutton

Subject: Weekly Site Meeting

On October 30, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, Mr. Kevin Glaser, NYSDEC; Mr. Art Pethybridge, Mr. Scott Pfohl, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 – Review of Minutes from the October 23, 1998 Meeting

- The minutes were reviewed and approved without change.

Item #2 – New Business Discussed During the October 30, 1998 Meeting

- Mr. Pethybridge explained that cutoff wall B was re-sampled for a second time. The sample was collected in the area of the failed permeability test.

SLC examined the previous shelly tube sample location and then re-checked the location of the cutoff wall B. They found that the previous sample was collected approximately 6 inches from the cutoff wall, thus explaining why the sample failed. SLC then re-sampled in the middle of cutoff wall B. The Shelby tube sample collected at this location passed the permeability requirement.

SLC also sampled the area of cutoff wall A that failed the permeability test. Prior to re-sampling, SLC re-compacted the failed area. The re-sampled Shelby tube collected from the failed area of cutoff wall A passed the permeability requirements.

- Mr. Scott Pfohl went over the work that was completed during the previous week. Mr. Pfohl explained that subgrade was completed; topsoil was approximately 95% completed; and hydroseeding of the completed topsoil was scheduled for Monday.
- Mr. Hutton explained that a punch list for incomplete work or improperly completed work would be completed immediately after the meeting.
- Final walk through for the site was scheduled for November 17, 1998 at 9:00 AM.
- Mr. Hutton requested to meet with the DEC after the final walk through with SLC.

LAN ASSOCIATES^I_N_C

- Mr. Hinton stated that the DEC would also like to attend the final walk through. Mr. Hutton agreed to this request.
- Mr. Hutton then gave Mr. Hinton the TCLP results for the sediment collected in the truck tire wash pad. Mr. Hutton pointed out that the total metals and TCLP results were within acceptable ranges and that the material was classified as non-hazardous. However, Mr. Hinton recommended that the stone and sediment from the wash pad be removed and disposed of as a non-hazardous waste at an off-site facility. Mr. Hutton stated that SKW would comply with Mr. Hinton's request.

After the meeting, a walk through of the site was completed and a punch list developed for SLC. The meeting ended at approximately 10:30 a.m.

HHH:jw

2.3269.22-M-WklyMtg-981023-hhh

Appendix G

Field Drawings and Notes

LAN Associates, Inc.

66 Cuna Street
St. Augustine, FL 32084
Tel. # (904) 824-6999
Fax. # (904) 824-0726

Client: SKW Metals & Alloys

Job #: 2.3269.22

Prepared By: Skip Hutton

Date: 6/26/98

Checked By: _____

Page: _____ of: _____

NOTES/CALCULATION WORKSHEET

John

Mat provided top of manhole at 598.40' and effluent invert at 596.16. ~~New~~ 18" diameter influent invert should be 596.26 (0.10 ft higher than effluent invert. The manhole itself will be 48" x 48", 3000 pound concrete. Mat's layout of the new pipe shows it connecting at a 135° angle to the existing effluent pipe (see attached drawings).

A drawing of the manhole tie-in is attached. Please note elevations and inverts shot by Mat are more accurate than tape measured distances made in the existing catchment basin.

If you have any questions please call me at 904-806-3112.

Very Truly Yours

Harry H. Hutton

LAN Associates, Inc.

66 Cuna Street
St. Augustine, FL 32084
Tel. # (904) 824-6999
Fax. # (904) 824-0726

Client: SKW Metals & Alloys

Job #: 2.3269.22

Prepared By: Skip Hutton

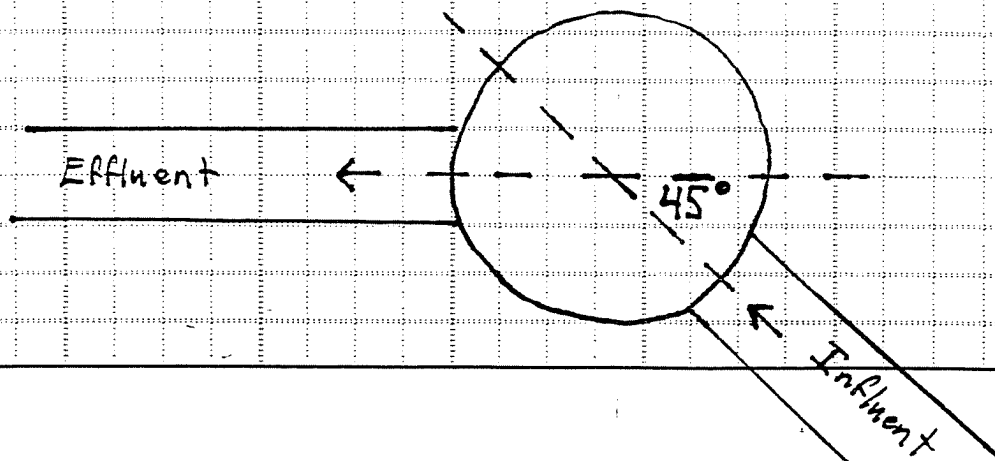
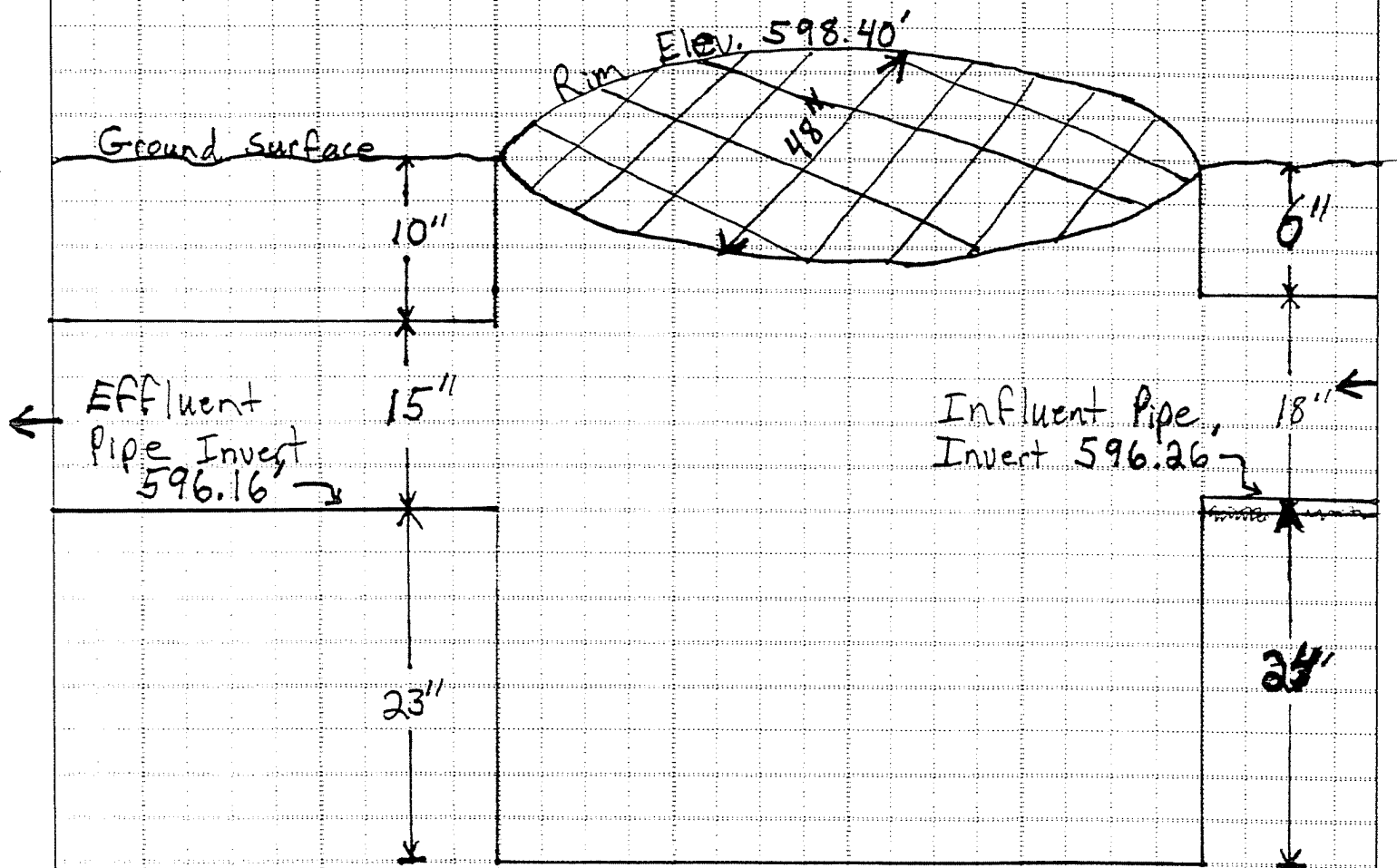
Date: 6/26/98

Checked By: _____

Page: 1 of: 1

NOTES/CALCULATION WORKSHEET

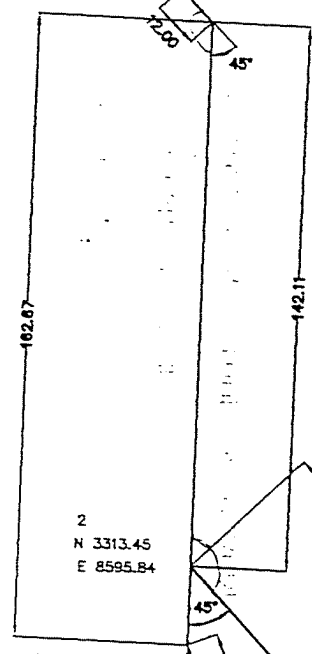
Manhole Tie-in
To Replace Stollberg Catchment Basin



6/25/98
Hand Delivered
By [unclear]

DEPTH STAKE LAYOUT
PT 20

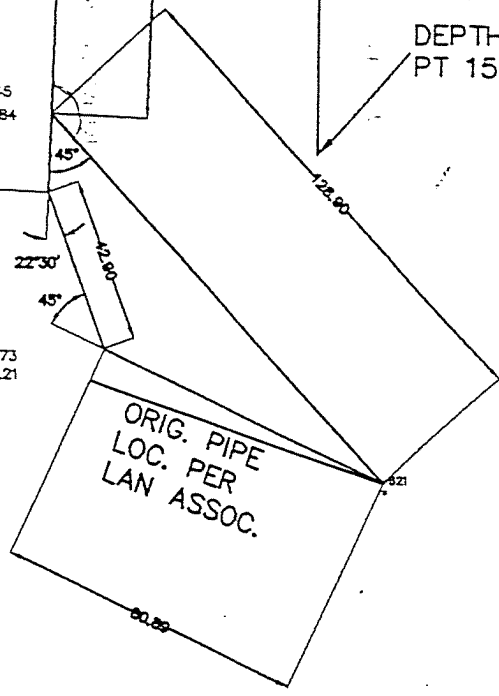
823
PIPE DIR
45°
822
CATCH BASIN
1
N 3455.48
E 8600.65



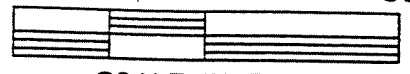
DEPTH STAKE LAYOUT
PT 15

3
N 3292.90
E 8595.14

4
N 3252.73
E 8610.21



50 25 0 50



SCALE IN FEET

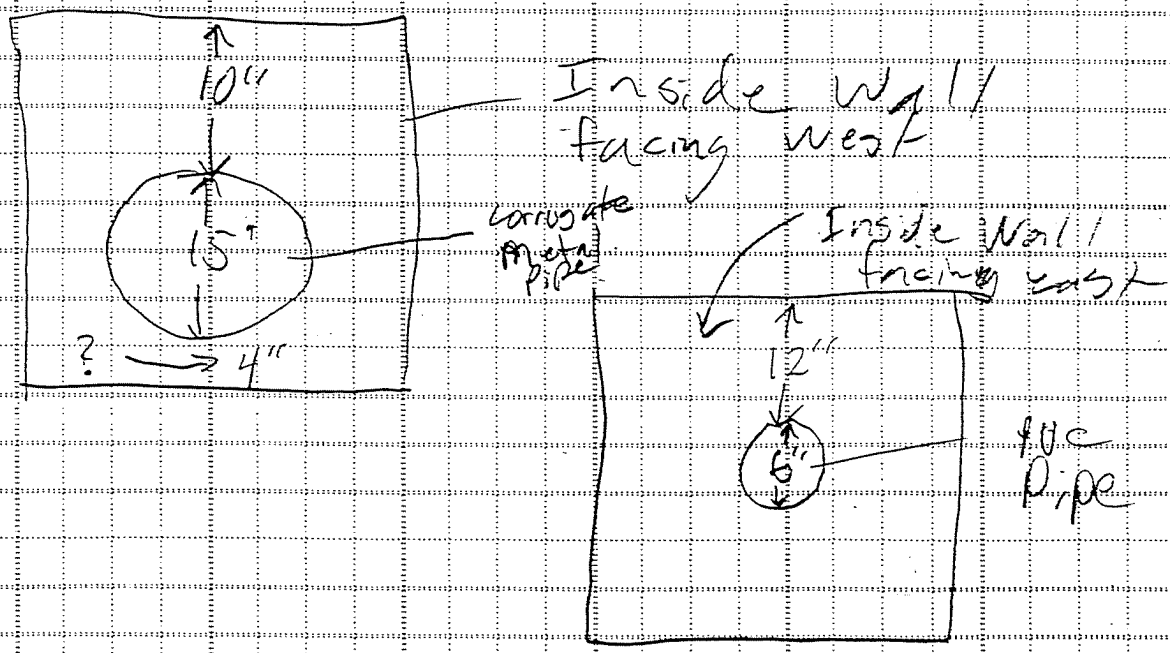
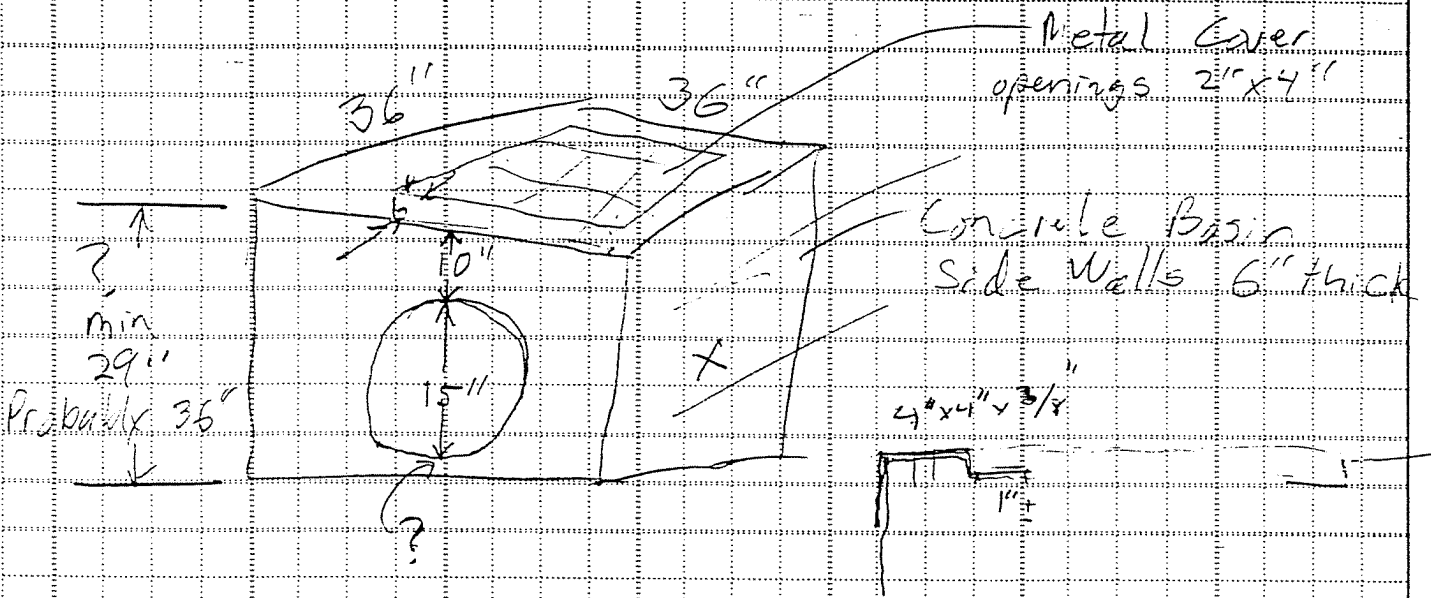
LAN Associates, Inc.

66 Cuna Street
St. Augustine, FL 32084
Tel. # (904) 824-6999
Fax. # (904) 824-0726

Client: SKW.
Job #: 2-3269-22
Prepared By: [Signature]
Date: 6/18/98
Checked By: _____
Page: _____ of: _____

NOTES/CALCULATION WORKSHEET

Stallberg Catchment Basin



LAN Associates, Inc.

66 Cuna Street
St. Augustine, FL 32084
Tel. # (904) 824-6999
Fax. # (904) 824-0726

Client: _____

Job #: _____

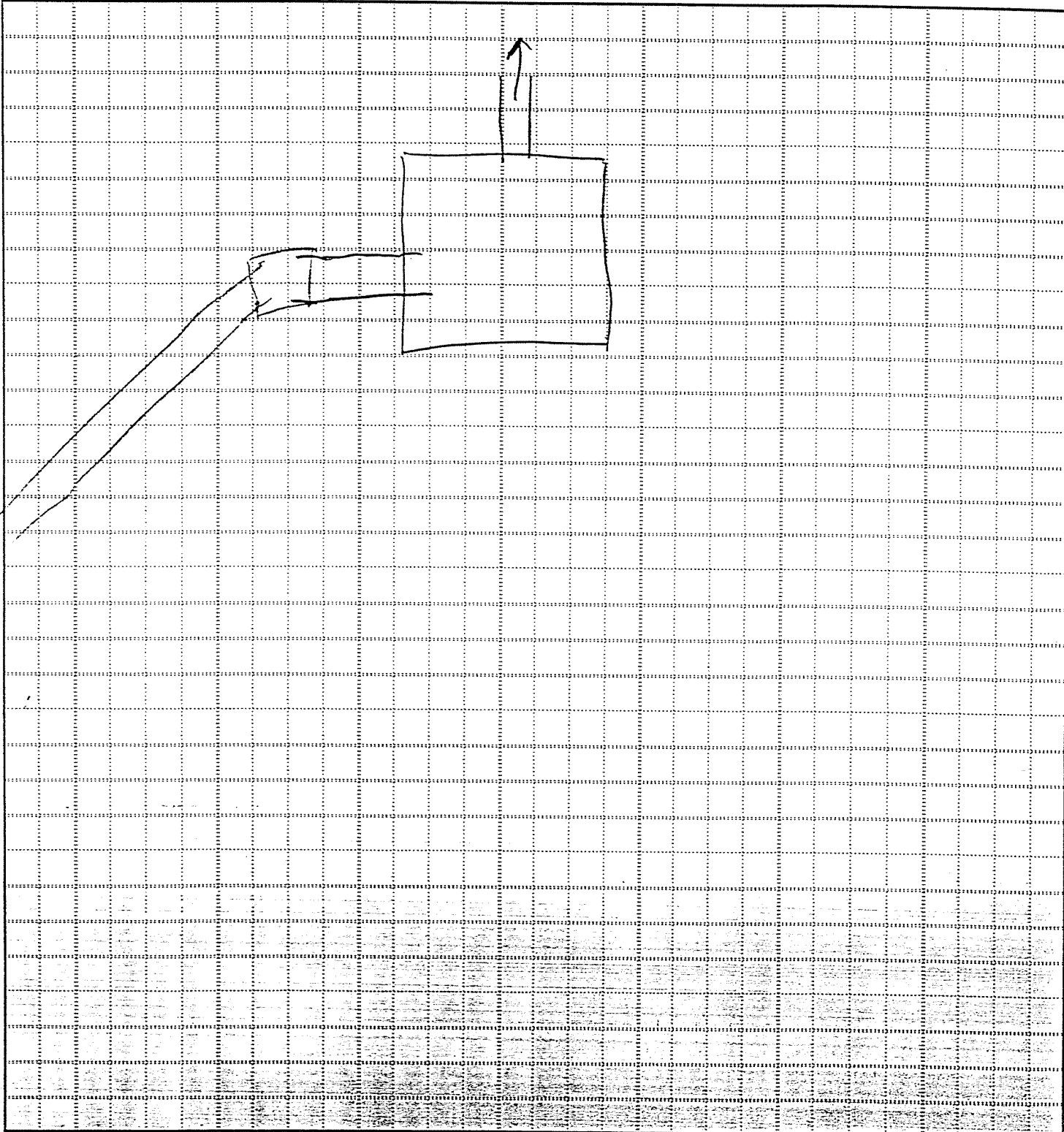
Prepared By: _____

Date: _____

Checked By: _____

Page: _____ of: _____

NOTES/CALCULATION WORKSHEET



LAN Associates, Inc.

66 Cuna Street
St. Augustine, FL 32084
Tel. # (904) 824-6999
Fax. # (904) 824-0726

Client: _____

Job #: _____

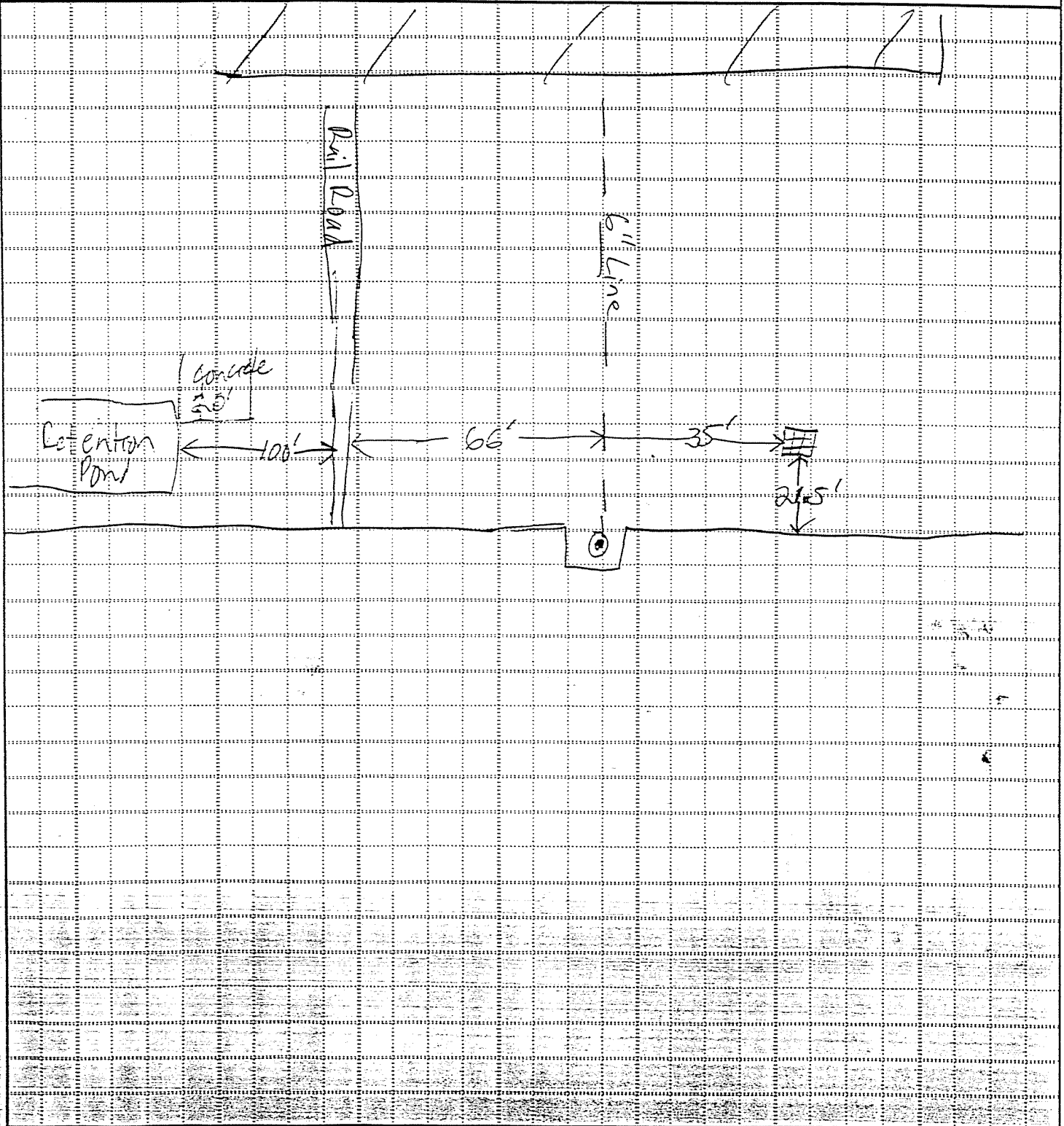
Prepared By: _____

Date: _____

Checked By: _____

Page: _____ of: _____

NOTES/CALCULATION WORKSHEET



Letter to John Kuhn

Dear John,

Yesterday we discussed Mr Matthew Klettke's cut and fill volume determinations. Mr Klettke determined that the cut material exceeds the fill material by 10,100 cy. This is significantly less than the excess amount of 12,286 cy determined by LAN Associates and provided to you in the Bid Spec.

The options of where to place this material was also discussed. The Bid Spec states that excess material ^{will} be utilized on-site. Therefore, LAN suggests that

this material be placed on high areas (knolls, ridges and slopes)

between detention basins and on the edges of detention basins.

The basins themselves should not be changed. Their size, shape

and elevations will remain as shown on the construction drawings.

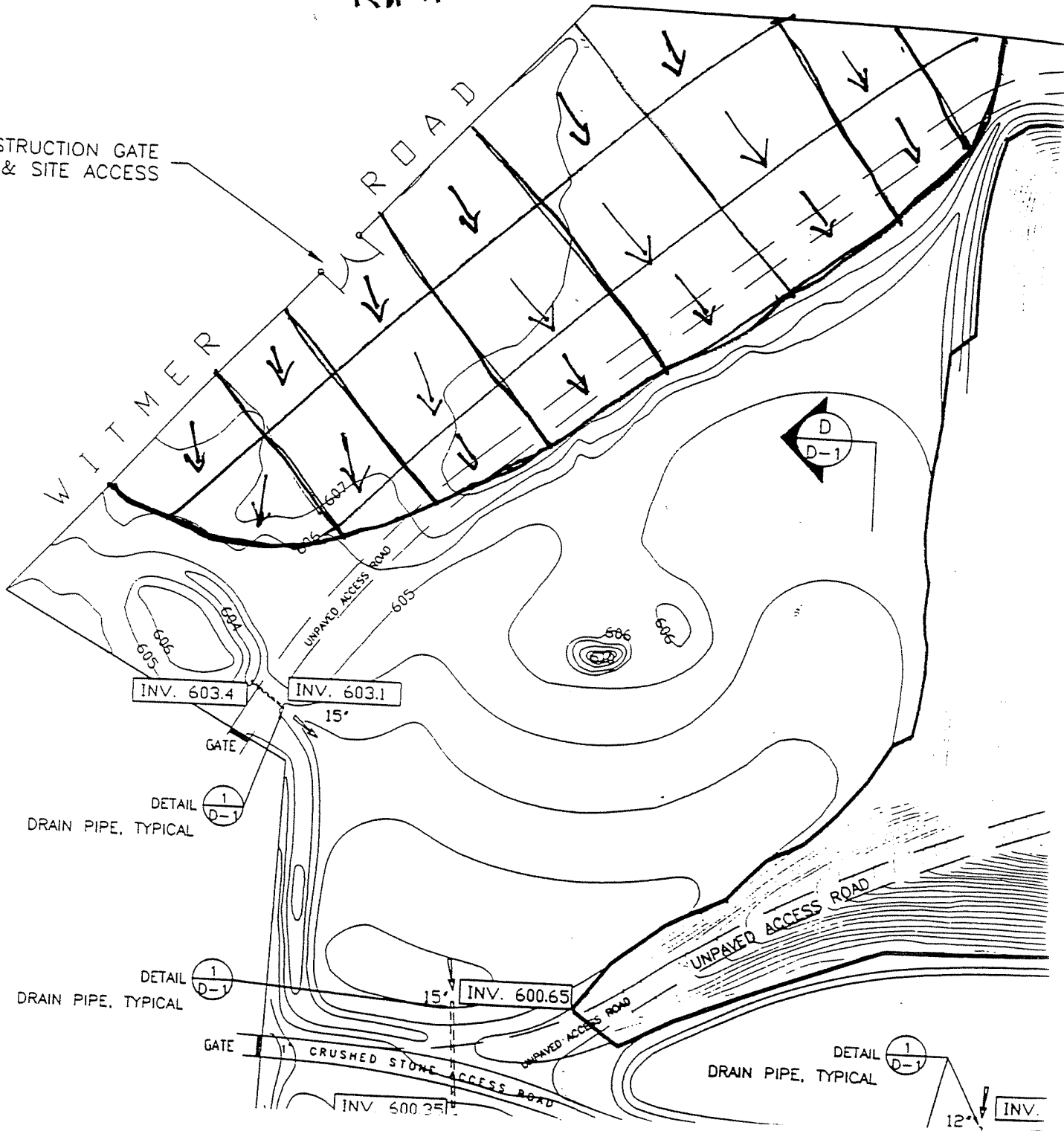
For your convenience a drawing is attached that shows the areas suitable for receiving excess material.

The areas are ranked based on their suitability.

If you have any questions, please do not hesitate to call me UTY H. Heather

Rank 1

NEW CONSTRUCTION GATE
& SITE ACCESS

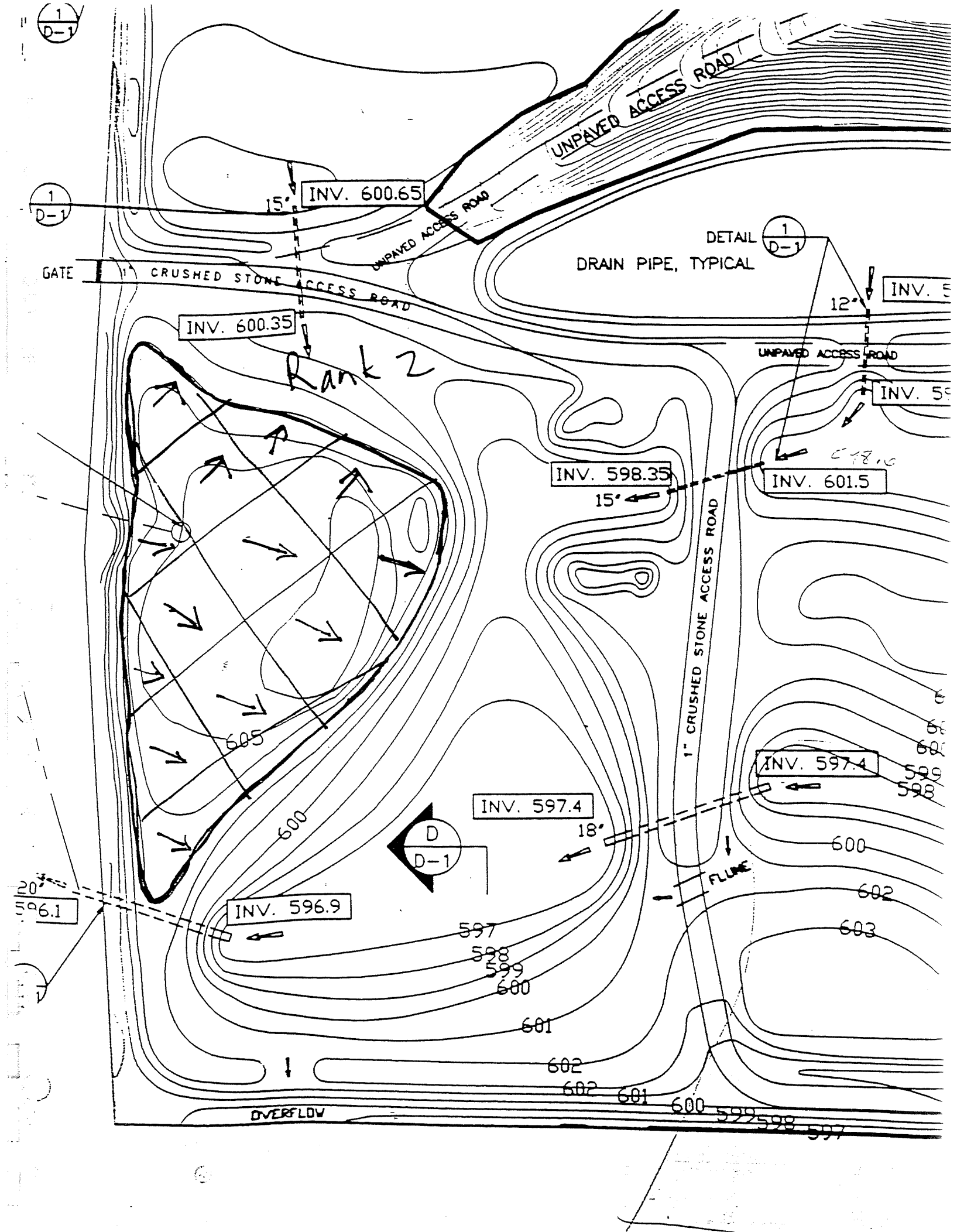


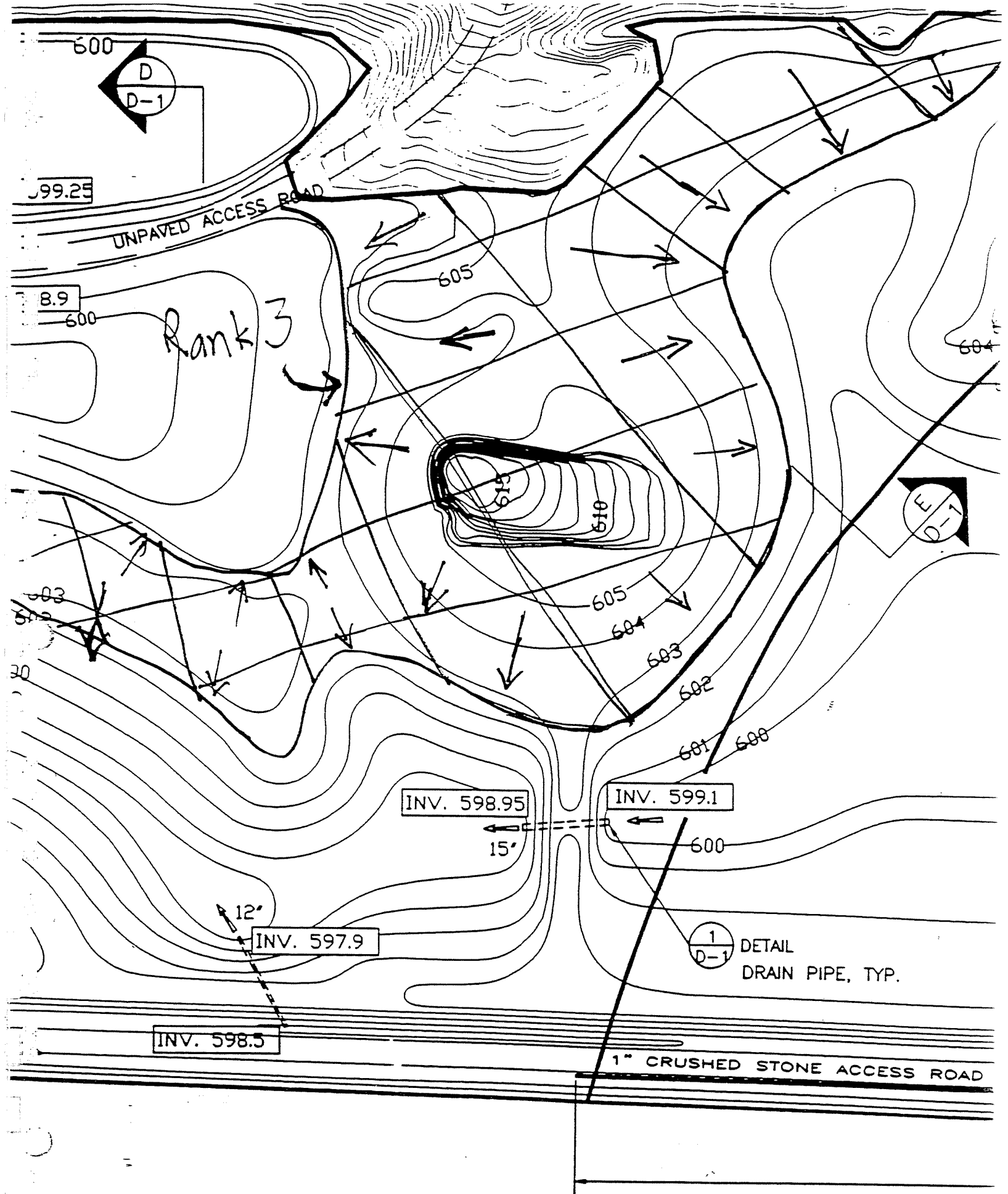
DETAIL 1
D-1
DRAIN PIPE, TYPICAL

DETAIL 1
D-1
DRAIN PIPE, TYPICAL

DETAIL 1
D-1
DRAIN PIPE, TYPICAL

INV.





ITE PLAN — NEW SURFACE TOPOGRAPHY

LAN Associates, Inc.

66 Cuna Street
St. Augustine, FL 32084
Tel. # (904) 824-6999
Fax. # (904) 824-0726

Client: SKW

Job #: 23269.6

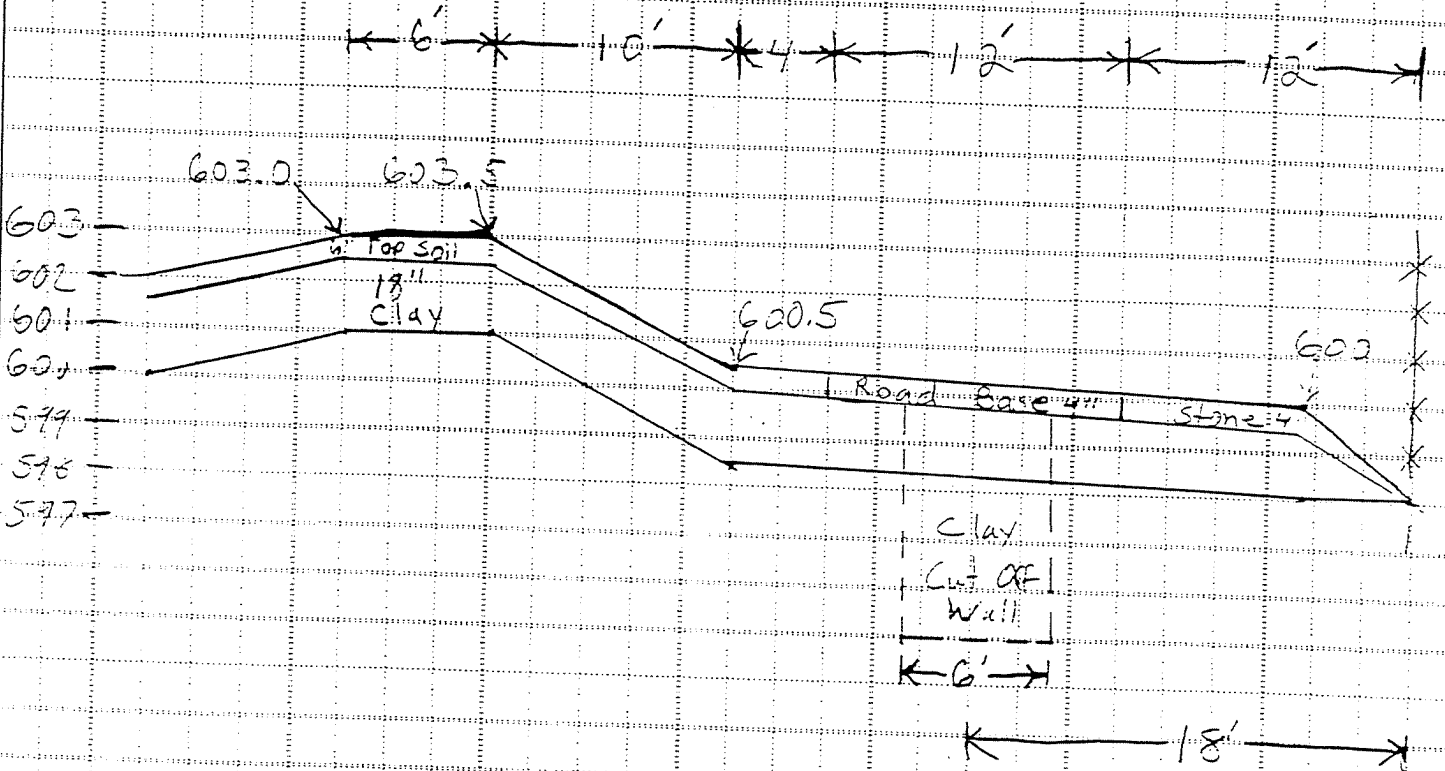
Prepared By: HRJ

Date: 8/17/98

Checked By: _____

Page: 1 of: 1

NOTES/CALCULATION WORKSHEET



LAN ASSOCIATES

Memo to: File #2.3269.22
SKW/Witmer Road Construction

Date: August 13, 1998

Copies to: Ed Bredniak
Mike Hinton
John Kuhn

From: Skip Hutton

Subject: Weekly Site Meeting



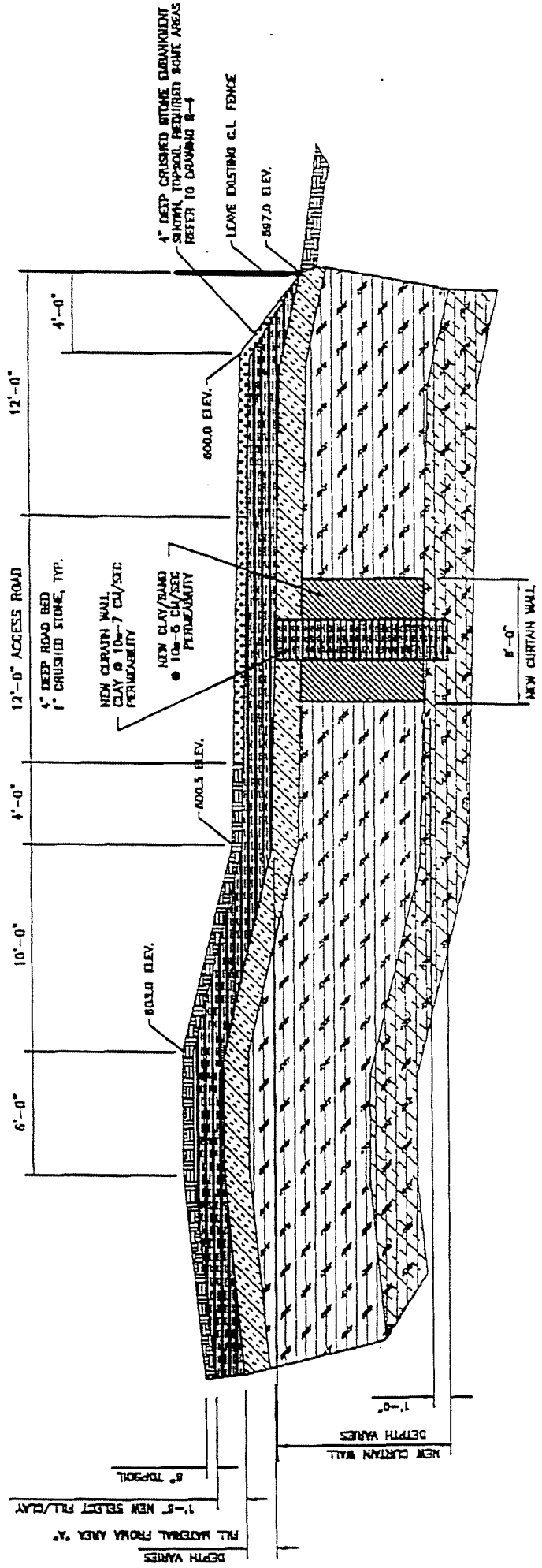
On August 7, 1998, an 8:30 AM site meeting was held at SKW's Witmer Road site. Attending the meeting were Mr. Mike Hinton, NYSDEC; Mr. John Kuhn, SLC; and Mr. Skip Hutton, LAN Associates. The following items were discussed during the meeting:

Item #1 - Review of Minutes from the July 31, 1998 Meeting

- The minutes were reviewed and approved without change or comments.

Item #2 - New Business Discussed During the August 7, 1998 Meeting

- The writer requested that he and Kevin Glaser re-sample and split the samples at locations Mr. Glaser sampled on August 4, 1998. Mr. Hinton suggested that the DEC split the existing samples with LAN and no re-sampling be done. The writer agreed to Mr. Hinton's suggestion.
- The writer asked Mr. Hinton how the disposal of ferrosilicon dust and the two drums should be handled. Mr. Hinton stated that the material should be classified as either hazardous or non-hazardous based on the results of TCLP analysis. The material should then be sent to an appropriate landfill.
- The writer then showed Mr. Hinton a re-design drawing of the south access road area. The drawing shows the location of the road, clay cut-off wall, and south berm. The drawing also shows surface slopes and a drainage divide at the top of the south berm. Mr. Hinton reviewed and approved the drawing.
- The writer showed Mr. Hinton a clay sample collected from the new borrow pit located on Grand Island. The writer showed Mr. Hinton test analyses for grain size moisture, density, and permeability. The writer explained that SKW would be conducting additional tests on the clay to confirm its suitability. Mr. Hinton said he had no problem with the clay.

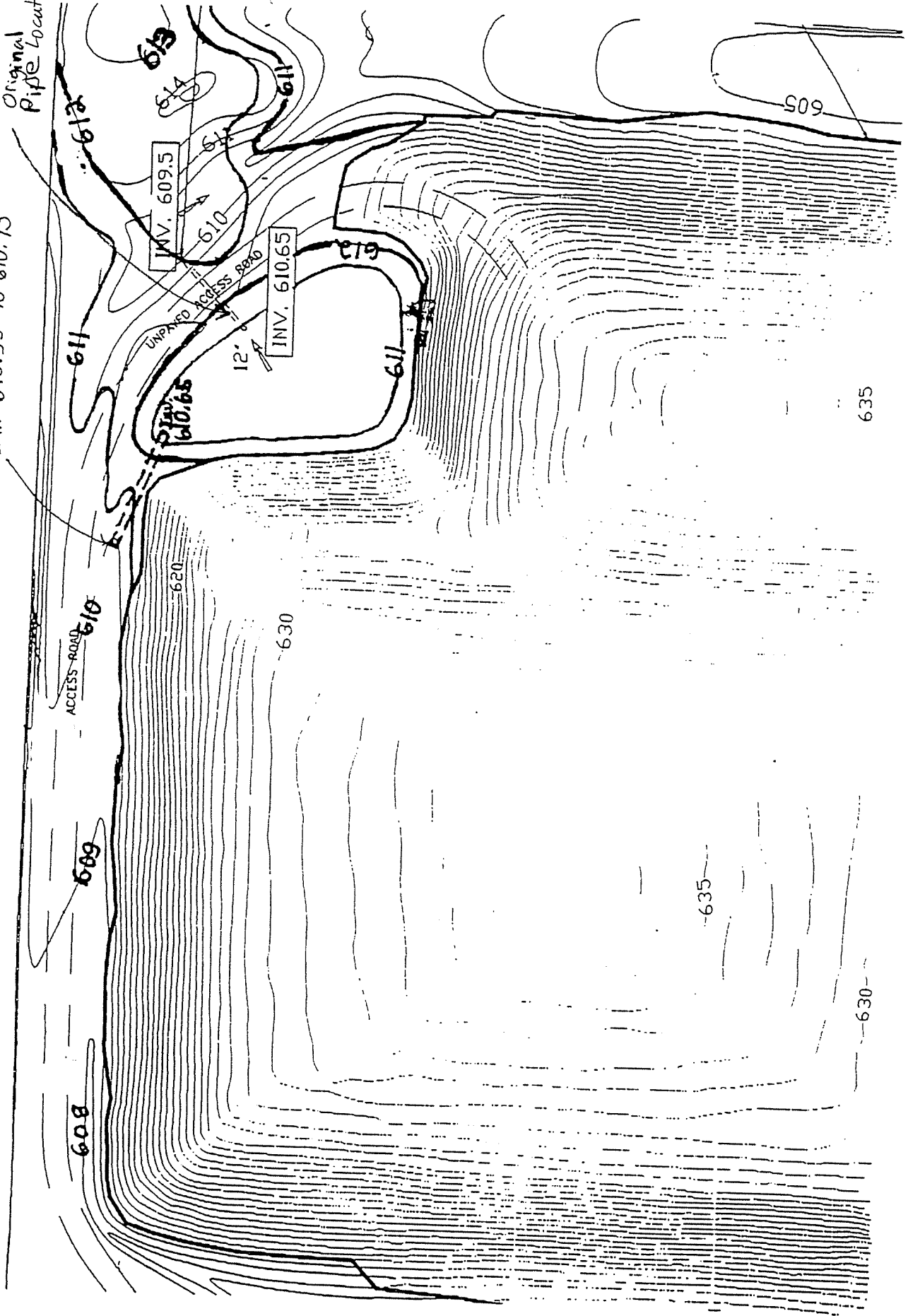


C SECTION VIEW
 5-2 DATE - 1/11-00

7/4/98

New Pipe Location
INV. 610.35 to 610.45

Original
Pipe Location



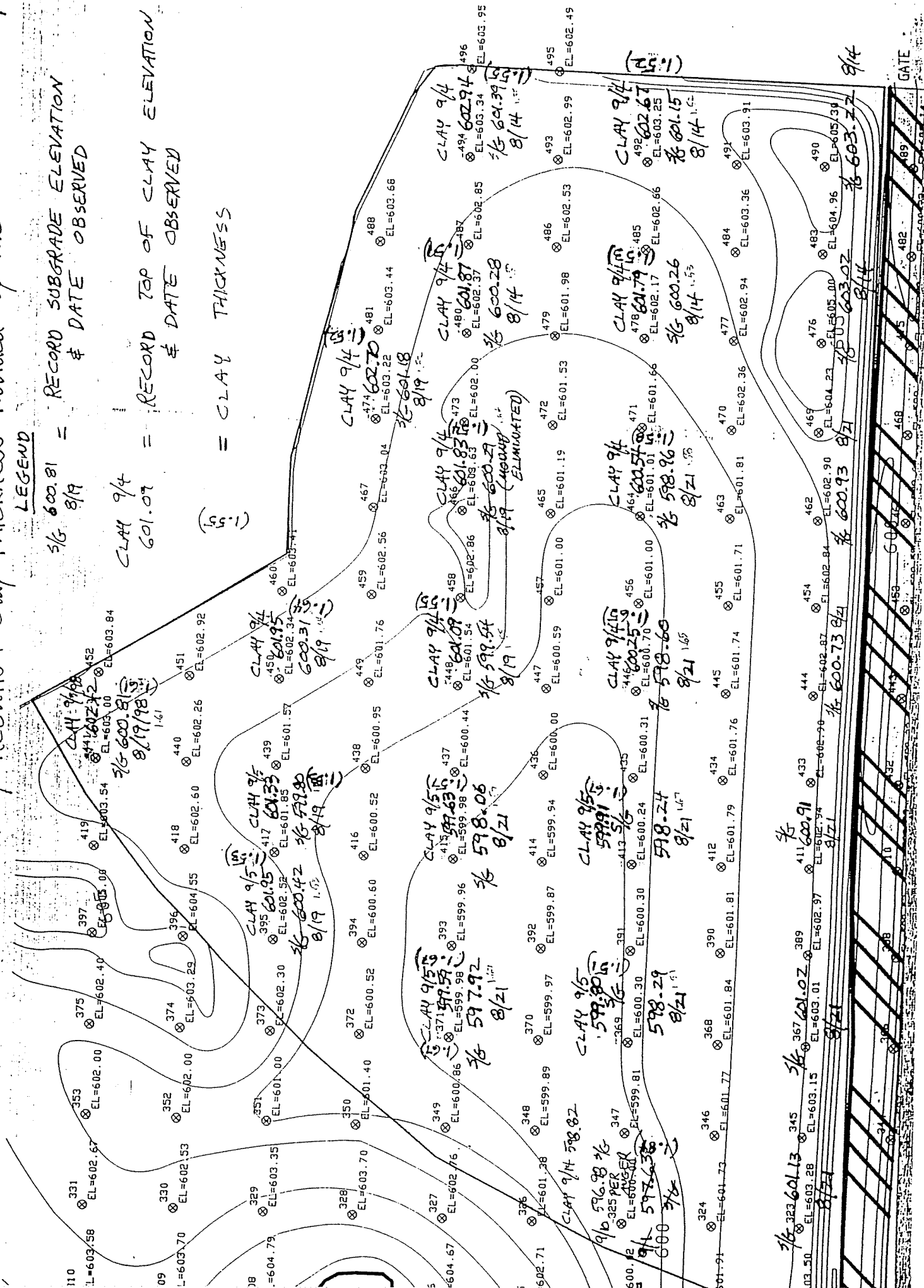
Survey results of clay thickness provided by Kleinfelder and Associates

LEGEND

3/6 600.81 = RECORD SUBGRADE ELEVATION & DATE OBSERVED

CLAY 9/4 601.07 = RECORD TOP OF CLAY ELEVATION & DATE OBSERVED

(15.1) = CLAY THICKNESS



GATE

Appendix H

Daily Field Logs

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

Daily INSPECTION REPORT

PROJECT SKW Water Road Recontouring DATE 6/15 19 98
 WEATHER Cloudy TIME 7-4:30 TEMP 75 HIGH 100 LOW
 GENERAL INFORMATION: Wind S-SE 5-10 mph from SW

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skipp Hutton</u>	OWNER REPR.	<u>THE SITE</u>	YES (X)	NO ()	Initial Sign. Meeting
<u>John Kuhn</u>	ARCH. REPR.	<u></u>	YES ()	NO ()	
<u>Mike Hinton</u>	GEN CONT. REPR	<u></u>	YES (X)	NO ()	
<u>Kevin Glazer</u>	<u>NYS/OEC</u>	<u></u>	YES (X)	NO ()	
<u>Mathew Klette</u>	<u>Surveyor</u>	<u></u>	YES (X)	NO ()	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: 200 X
 OPERATORS (): LABORERS (): OTHER (2) Surveyors (8-4:30)

QUALITY OR WORKMANSHIP: Good Mathew Klette and helper
completing survey work

PROGRESS OF WORK AND WORK BEING PERFORMED:

1. Surveyors located control points and began site survey. Surveyors had received over the weekend CAD drawings on CD rom from LAN. Surveyors also received aerial photos of site and control data from Lockwood 'Mason' who complete site map with elevation in 1996. LAN's construction drawings are based on Lockwood map.
2. Meeting Mike Hinton & Kevin Glazer (OEC) with John Kuhn (SLC) and Skipp Hutton (LAN). Meeting from 8-11:00.
3. Trackhoe w/ hydraulic hammer delivered to site

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Survey Work - None
Mike Hinton - Wants Site Screening Work Plan. Revised IRM work plan meeting on Friday at 8:30 am. documentation of clay thickness & Community Air Monitoring Program. John Kuhn - will obtain water for dust suppression and hook up to Town fire hydrant. Will not place trailer on top of landfill.

VIDEO DOCUMENTATION: Tape # 1 dated 6/15/98
 PHOTO DOCUMENTATION: Roll # 1

Harry "Skid" Hutton
 PROJECT INSPECTOR (PRINT)

Mathew Klette
 PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Whitmer Road Recontouring DATE 6/16 1998
 WEATHER Cloudy & Rain Wind SW 5-10 TIME 11:02 TEMP 70 HIGH 80 LOW

GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hutson</u>	OWNER REPR.	<u>Job Site</u>	YES ()	NO ()	<u>8-4:30</u>
<u>John Kuhn</u> <u>SLC</u>	ARCH. REPR.	<u>"</u>	YES ()	NO ()	<u>"</u>
<u>Don Kuhn</u>	GEN CONT. REPR	<u>"</u>	YES ()	NO ()	<u>7-10:00</u>
<u>Gary Catlin</u>	<u>Pres. SLC</u>	<u>"</u>	YES ()	NO ()	<u>7-10:00</u>
	<u>Sub to SLC</u>	<u>"</u>	YES ()	NO ()	<u>7-10:00</u>

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (): LABORERS (): OTHER (2) Surveyors

QUALITY OR WORKMANSHIP: Surveyors - Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

Moderate rain started about 10:30, surveyors continue work
 11:20 Town of Niagara Water Works came out to inspect fire hydrant.

9-10:00 Gary Catlin tested trackhoe & hammer on
 concrete columns & footer. Reported equipment worked fine.
 Don Kuhn reported water truck would be on-site today
 or tomorrow morning.

9:00 trailer delivered to site and set-up near gate

11:50 Rain stops

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Meeting with John & Don Kuhn
 Don requested Community Air Monitoring Program Requirements, Copy of
 Consent Order, complete Contract Document w/ signatures. Don also
 asked if trees stay. He said they plan to start work in
 Area A

VIDEO DOCUMENTATION: Continue Tape # 1 dated 6/15/98
 PHOTO DOCUMENTATION: Roll # 2

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

Daily
INSPECTION REPORT

PROJECT SK67 Widener Road Re-surfacing DATE 6/29 1998
 WEATHER Partly Cloudy Wind SW 5-12 TIME _____ TEMP 85 HIGH 70 LOW _____
 GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.			
			YES	(X)	NO	()
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	()	NO	()
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	()	NO	()
_____	GEN CONT. REPR	_____	YES	()	NO	()
_____	_____	_____	YES	()	NO	()
_____	_____	_____	YES	()	NO	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: one operator on trackhoe w/ hammer
one laborer cracking grades
one laborer running water truck
 OPERATORS (1): LABORERS (2): OTHER ()

QUALITY OR WORKMANSHIP: Good but slow going busting
concrete

PROGRESS OF WORK AND WORK BEING PERFORMED: various breaks in concrete and #1

Water truck used to keep dust to minimum.
However air monitoring showed - water truck was
not needed.

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: none

VIDEO DOCUMENTATION: _____
 PHOTO DOCUMENTATION: _____

Skip Hutton
 PROJECT INSPECTOR (PRINT)

[Signature]
 PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Witrice Road 2-contouring DATE 6/30 1998
WEATHER cloudy & heavy wind TIME 1:00 TEMP 85 HIGH 70 LOW _____
GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.			
			YES	NO	YES	NO
<u>SL: [unclear]</u>	OWNER REPR.	_____	YES	(X)	NO	()
<u>South [unclear]</u>	ARCH. REPR.	_____	YES	(X)	NO	()
<u>Govt [unclear]</u>	GEN CONT. REPR	_____	YES	(X)	NO	()
_____	_____	_____	YES	()	NO	()
_____	_____	_____	YES	()	NO	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: one operator in trackhoe & dozer
OPERATORS (1): LABORERS (2): OTHER (1) one laborer in water truck
one laborer as grade stake former

QUALITY OR WORKMANSHIP: Good, but slow going busting concrete

PROGRESS OF WORK AND WORK BEING PERFORMED: Continue to break up pad area
- found and exposed of one to two layers of 6" to 8" concrete
- found electrical conduit line incased in concrete that had to be broken up because we are in area that requires 4' cut

No visible dust observed. Rain was hard enough and frequent enough that water truck was not needed.
However, water truck & operator were standing by if needed

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Instructed that electrical lines were all dead and incased concrete should be removed.

VIDEO DOCUMENTATION: _____
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

Duix INSPECTION REPORT

PROJECT SKW - Wilmer Road Re-contouring DATE July 19 98
 WEATHER Partly Cloudy Wind NW 15-25 TIME 9:15 TEMP 60 HIGH 70 LOW
 GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>SKW</u>	OWNER REPR.	_____	YES (X)	NO ()	() 7:00-4:00
<u>Gene Gartin</u>	ARCH. REPR.	_____	YES ()	NO ()	()
<u>Art De-hybridge</u>	GEN CONT. REPR	_____	YES (X)	NO ()	() 7:00-9:00
_____	_____	_____	YES (X)	NO ()	() 8:00-8:30
_____	_____	_____	YES ()	NO ()	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: One operator in trackhoe & dozer
One laborer in water truck
One laborer as grade stake foreman
 OPERATORS (1): LABORERS (2): OTHER ()

QUALITY OR WORKMANSHIP: Good, but slow going busting concrete
7:00-4:00

PROGRESS OF WORK AND WORK BEING PERFORMED:

9:00 Complete busting Pad #1 (old transformer building area) Pad thickness varied between 6" & 14".
 In some areas the pad was two pours on top of each other with total thickness 12"-14". Patches were massive 14-18" thick and 4' to 5' deep.

9:15 Moved to new area Pad #2 near eastern fence line (~ station # 448).
 Use dozer to scrape soil off pad and define extent of pad.

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION:

PHOTO DOCUMENTATION:

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

Daily INSPECTION REPORT

PROJECT SKW Witrer Rd Re-contouring DATE 7/2 1998
WEATHER Sunny TIME 9:10 TEMP 83 HIGH 65 LOW

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hutton</u>	OWNER REPR.	<u></u>	YES	()	NO () 7:00 - 4:00
<u>John Kuhn</u>	ARCH. REPR.	<u></u>	YES	()	NO ()
<u>Gary Catlin</u>	GEN CONT. REPR	<u></u>	YES	(X)	NO () 7:30 - 8:30
<u></u>	<u></u>	<u></u>	YES	()	NO () 7:00 - 9:00
<u></u>	<u></u>	<u></u>	YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: One operator in trackhole w/ hammer
One laborer as grade stake former
One laborer running water truck
OPERATORS (1): LABORERS (2): OTHER ()

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:
Continue to bust concrete in area of Pad 2
Mainly working on above ground structures.
Work is very slow do to large amount
of big re-bar in concrete.

Move to area SE of ramp and bust above ground
structures (columns).

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: None

VIDEO DOCUMENTATION: Tape # 1
PHOTO DOCUMENTATION:

Harry H. Hutton
PROJECT INSPECTOR (PRINT)

[Signature]
PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Wilmer Rd Re-Contouring DATE 7/6 1998
 WEATHER Cloudy TIME _____ TEMP 80 HIGH 60 LOW _____

GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.				
<u>SKP Hutton</u>	OWNER REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7:00-4:30
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
<u>Gary Catline</u>	GEN CONT. REPR	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	8:00-12:00
_____	_____	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7:00-10:00
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: One operator in truckhole w/ hammer
One laborer as grade stake foreman
One laborer in water truck
One operator in truckhole w/ bucket

OPERATORS (2): LABORERS (2): OTHER (1)

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

Continue to bust concrete w/ hammer working on collars.
Pull up part of pad #1 w/ truckhole
Move concrete w/ dozer
Move material w/ dump truck which arrived on-site about 1:00pm
Place material on high near south boundary

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Truckhole w/ bucket developed leak. Down 11:00 to 1:30

VIDEO DOCUMENTATION: Tape # 1
 PHOTO DOCUMENTATION: _____

Harry H. Hutton
 PROJECT INSPECTOR (PRINT)

[Signature]
 PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Wilmer Road Re-construction DATE 7/7 1998
 WEATHER Rainy Wind South 5mph TIME _____ TEMP 65 HIGH 75 LOW _____
 GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.				
<u>Skw Hutton</u>	OWNER REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7:00-3:30
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
<u>Gary Cutlin</u>	GEN CONT. REPR	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	7:00-12:00
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	7:00-8:00
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: One operator had doctors appointment
 OPERATORS (1): LABORERS (1): OTHER () John Kuhn replaced him in trackhoe
 QUALITY OR WORKMANSHIP: _____ One operator in tractor
Good One laborer as grade stake force
One laborer sent home because
water truck is not needed.

PROGRESS OF WORK AND WORK BEING PERFORMED: _____

- Excavate broken Pad #1 with trackhoe place
material in dump truck and move to south side
of property where fill is required
- Dozer starts to cut SW basin and moves material
to south side of property

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: _____

Laborer/Water Truck Driver sent home because of rain
No dust monitoring completed during rain
Trackhoe has 18" bucket. This makes loading dump trucks
very slow. should have 3' bucket. Also need 1 to 2 additional operators.
One on hammer to further break up concrete. One on second dozer

VIDEO DOCUMENTATION: Tape 1
 PHOTO DOCUMENTATION: _____

Harry H. Hutton
 PROJECT INSPECTOR (PRINT)

[Signature]
 PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Witmer Road Re-contouring DATE 7/8 1998
 WEATHER Rainy & Cloudy TIME _____ TEMP 65 HIGH 70 LOW _____
 GENERAL INFORMATION: Wind West 5-10

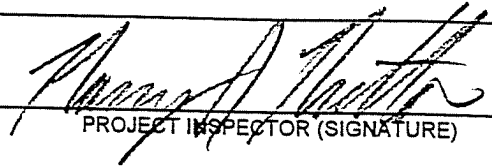
NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hutto</u>	OWNER REPR.	_____	YES	()	NO () 7:00 - 4:30
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	()	NO ()
<u>Gary Catlin</u>	GEN CONT. REPR	_____	YES	()	NO () 7:00
_____	_____	_____	YES	()	NO () 7:00 - 7:30
_____	_____	_____	YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: One operator on dozer in SW area
One operator on dozer at ramp
One operator on trackhoe at pad 1
 OPERATORS (3): LABORERS (1): OTHER (1) Trucker One laborer as grade stake foreman
 QUALITY OR WORKMANSHIP: Good One trucker at pad 1

PROGRESS OF WORK AND WORK BEING PERFORMED: _____
Trackhoe continues to remove broken concrete from Pad 1
Drum truck moves broken concrete to fill areas as
directed by grade stake foreman
1 Dozer forming SW basin
1 Dozer cutting down ramp

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Ram hard to ~ 8:00 am
start work at ~ 8:15

VIDEO DOCUMENTATION: Tape 1
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) 

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Winter Road Recontouring DATE 7/9 1998
 WEATHER Fog in AM then clear TIME 3:40 TEMP 78 HIGH 165 LOW
 GENERAL INFORMATION: Wind W 5 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Hutton</u>	OWNER REPR.	_____	YES (x)	NO () 7:00-4:30
_____	ARCH. REPR.	_____	YES ()	NO ()
<u>John Kuhn</u>	GEN CONT. REPR	_____	YES ()	NO () 7:00-10:00
<u>Gary Catlin</u>	_____	_____	YES ()	NO () 7:00-10:00
_____	_____	_____	YES ()	NO ()


APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: One operator in SW basin on Dozer
One operator " " on buster
 OPERATORS (3): LABORERS (2): OTHER (3) 1 Trucker One operator " " on hoe
2 surveyors One Trucker " " "

QUALITY OR WORKMANSHIP: Good/Poor

PROGRESS OF WORK AND WORK BEING PERFORMED: Dozer operator in SW cut below grade and removed a subgrade pipe after I & grade stake foreman flagged and pointed in out.
Trackhoe completed removal of concrete from Pad 1
Dump truck moved material to fill areas
1 Dozer worked SW basin
1 Dozer worked area where cut-off wall goes to determine if concrete is in area
1 Trackhoe busting concrete in area of Pad 1

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: S/C Mini Rams are inaccurate they need to be calibrated and/or serviced

VIDEO DOCUMENTATION: Tape 1
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) 

INSPECTION REPORT

PROJECT SKW Witmer Road Recreational DATE 7/10 1998
 WEATHER Sunny Wind N at 5-10 TIME _____ TEMP 78 HIGH 165 LOW _____
 GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.			
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	()	NO ()	<u>7:00-3:30</u>
<u>John Kubler</u>	ARCH. REPR.	_____	YES	()	NO ()	<u>7:00-</u>
<u>Garry Cotton</u>	GEN CONT. REPR	_____	YES	()	NO ()	<u>7:00-</u>
<u>Raven Glasser DEC</u>	_____	_____	YES	()	NO ()	<u>8:30-11:00</u>

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (2): LABORERS (2): OTHER (2) Surveyors 1 Truck Driver

QUALITY OR WORKMANSHIP:

Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- Trackhoe #1 excavated edges of Pad 2
Then move to demo camp
- Trackhoe w/ hammer worked in am on last parts of Pad 1 then moved to bust concrete at Pad 2
- Dozer pushing dirt off pad 2 onto fill area south of camp
- Laborer cutting steel off to grade on pad 2 and cutting steel supports for ramp
- Laborer/Foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: None

VIDEO DOCUMENTATION: Tape 2
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

Harvey A. [Signature]
 PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Winter Road Recontouring DATE 7/13 1998
WEATHER Sunny (SW 5-10) TIME _____ TEMP 80 HIGH 65 LOW _____
GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.				
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7:00-4:00
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
<u>Gary Estlin</u>	GEN CONT. REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7-11:30
_____	_____	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7-7:30
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: 1 operator in trackhoe w/ hammer installed
1 operator in dozer in SW Basin
OPERATORS (3): LABORERS (2): OTHER (1) Trucker 1 operator in trackhoe at ramp

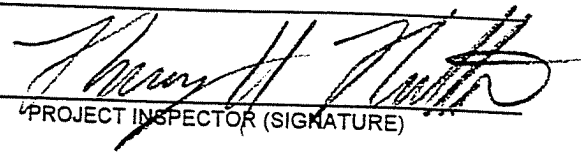
QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:
Continue to demo ramp w/ trackhoe. Separate tie and steel
Continue to cut & fill SW basin with dozer and
extend cuts to north toward access road.
Trackhoe w/ hammer continues to bust up Pad 4
in area where cuts are required

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:
SLC has dozer down to replace cutting blade.
Water truck on site but not used in am only used
3 or 4 times during day.

VIDEO DOCUMENTATION: Tape # 2
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)


PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Wimer Road Recontouring DATE 7/14 1998
WEATHER Partly Cloudy Wind SW 5 mph TIME _____ TEMP 85 HIGH 65 LOW _____
GENERAL INFORMATION: Hot & Humid

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skippy H. Hiron</u>	OWNER REPR.	_____	YES (x)	NO () 7:00-4:30
_____	ARCH. REPR.	_____	YES ()	NO ()
_____	GEN CONT. REPR	_____	YES ()	NO ()
<u>Kevin Glosser UEC</u>	_____	_____	YES ()	NO ()
_____	_____	_____	YES ()	NO () 11:00-12:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2): OTHER (1) truck driver

QUALITY OR WORKMANSHIP:

Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

Continue to cut & fill SW basin with 2 dozers and extend cut & fill north toward access road. Trackhoe and hammer continue to bust up Pad 2
For fence on site and hang gates at Wimer Road.

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Dozer cutting blade replaced and working again
Hammer on trackhoe is broken and down about 12:00

VIDEO DOCUMENTATION: Tap # 2

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

[Signature]
PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Witmer Road Recontouring DATE 7/15 1995
WEATHER Sunny & Hazy & Humid TIME _____ TEMP 88 HIGH 70 LOW _____
GENERAL INFORMATION: Wind South @ SW 5-12mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>SKW Hutton</u>	OWNER REPR.	_____	YES ()	NO ()	() 7:00-4:00
_____	ARCH. REPR.	_____	YES ()	NO ()	()
_____	GEN CONT. REPR	_____	YES ()	NO ()	()
_____	_____	_____	YES ()	NO ()	()
_____	_____	_____	YES ()	NO ()	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2): OTHER (1) Truck Driver

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 2 dozers working cut & fill in SW basin
- 1 trackhoe digging around footer walls around Pad 2 then moved to SW basin to remove fine grading material from berm in SW basin and move to Area B
- 1 laborer as grade stake foreman
- 1 laborer clearing debris (metal) from SW basin and applying water from water truck as needed 4 or 5 times per day
- 1 truck driver moving material out of Pad 2 (Area A) to Area B.

Southwest basin starting to look good

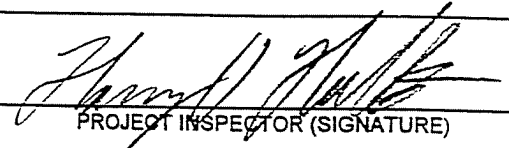
PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

- Hammac still down
- Flat Tire on Water Truck
- Remove fine grading material from berm in SW basin and move to Area B (Time 2:20 to 3:30).

VIDEO DOCUMENTATION: Tape #2

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)


PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Water Load Reconfiguring DATE 7/16 1978
 WEATHER Partly Cloudy Hot & Humid TIME _____ TEMP 88 HIGH 170 LOW _____
 GENERAL INFORMATION: Wind SW 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Harton</u>	OWNER REPR.	_____	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/> 7:00-5:30
<u>John Kuhn</u>	ARCH. REPR.	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/>
<u>Gary Carlin</u>	GEN CONT. REPR.	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/> 7:30-
_____	_____	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/> 7:00-8:30
_____	_____	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/>

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2): OTHER (X) 1 truck driver, 2 surveyors

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 Dozer cutting down ramp
- 1 Dozer cut/fill north part of SW basin
- 1 Tractor loading debris (logs & trees)
- 1 Laborer assisting with grade stakes and spreading water from water truck
- 1 Laborer as grade stake formman
- 2 Surveyors surveying SW basin

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

3 of the 6 workers on site admitted they did not have OSHA 40 hr training, even though the Health & Safety Plan they signed required it. All three were asked to leave the site.

VIDEO DOCUMENTATION: Tape #2
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SEW W. Line RL Resurfacing DATE 7/17 1998
 WEATHER Partly cloudy hot humid TIME _____ TEMP 85
 GENERAL INFORMATION: afternoon rain WIND SW HIGH 70 LOW _____

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	()	NO ()
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	()	NO ()
_____	GEN CONT. REPR	_____	YES	()	NO ()
_____	_____	_____	YES	()	NO ()
_____	_____	_____	YES	()	NO ()

7:00-5:30

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (1): OTHER (X) 1 truck driver

QUALITY OR WORKMANSHIP:

Good but slow progress

PROGRESS OF WORK AND WORK BEING PERFORMED:

Continue to cut & fill SW Basin near access road.
 - 1 dozer

Continue to haul concrete in SW Basin near access rd.
 - 1 truckload

Start cut & fill earth moving in next basin toward the east
 - 1 truckload

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Site truck down because of bad alternator

Heavy rain from 4-4:30 pm

VIDEO DOCUMENTATION: Tape 2

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

Kevin A. [Signature]
 PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Witmer Pond Recontouring DATE 7/20 1998
WEATHER Partly Cloudy Wind West TIME _____ TEMP 80 HIGH 170 LOW _____
GENERAL INFORMATION: 5-10 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.			
<u>Skylar Hutton</u>	OWNER REPR.	_____	YES	(x)	NO	() 7:00 - 7:10
<u>John Kiser</u>	ARCH. REPR.	_____	YES	()	NO	()
<u>Greg Larkin</u>	GEN CONT. REPR.	_____	YES	()	NO	() 7:00 - 9:10
_____	_____	_____	YES	()	NO	() 7:00 - 9:30
_____	_____	_____	YES	()	NO	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2): OTHER (x) 1 truck driver

QUALITY OR WORKMANSHIP:

Good but slow

PROGRESS OF WORK AND WORK BEING PERFORMED:

Busting concrete in SW basin near access road.
- using trackhoe w/ hammer & dozer

Remaining concrete slabs in SE basin near Pined property.
- using trackhoe and dump truck

One operator had to leave site today at 3:00
for personal reasons. He should be back
tomorrow.

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Site truck alternator repaired

VIDEO DOCUMENTATION: Tape # 2
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

Henry H. Hutton
PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Wetmore Road Recertification DATE 7/21 1998
WEATHER Cloudy Humid & Hot TIME _____ TEMP 85 HIGH 90 LOW _____
GENERAL INFORMATION: Wind S to SW 10-20 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.			
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	(X)	NO	() 7:30-7:30
<u>Art Peterson</u>	ARCH. REPR.	_____	YES	()	NO	()
<u>Gary Catlin</u>	GEN CONT. REPR.	_____	YES	(X)	NO	() 9-10
_____	_____	_____	YES	(X)	NO	() 7-11:30
_____	_____	_____	YES	()	NO	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2): OTHER (X) 1 trucker 1 SLC Equipment Repairman

QUALITY OR WORKMANSHIP: Good, but slow

PROGRESS OF WORK AND WORK BEING PERFORMED:

1 dozer 1 trackhoe 1 dump truck working
extreme western part of SKW basin

later move to east area pad #2
1 dozer cutting filling 1 trackhoe excavation
concrete, 1 truck hauling materials

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Trackhoe with hammer is down at 1:00 w/
broken hydraulic line.
1 Dozer is down for repair/maintenance

VIDEO DOCUMENTATION: Tape # 2
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Winter Road Re-surfacing DATE 7/22 1998
WEATHER Partly Cloudy Wind SW 5-10 TIME Avg TEMP 70 HIGH 85 LOW _____
GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
			YES	NO
<u>Skip Hutton</u>	OWNER REPR.	_____	YES (X)	NO () 7:30-5:00
_____	ARCH. REPR.	_____	YES ()	NO ()
<u>John Lunn</u>	GEN CONT. REPR	_____	YES (X)	NO () 7:00
<u>Gary Conlin</u>	_____	_____	YES (X)	NO () 7:00
<u>Mike Hunter DEC</u>	_____	_____	YES (X)	NO () 7:00
<u>Dawn ?? DOH</u>	_____	_____	YES (X)	NO () 10:00-10:30 10:00-10:30

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2): OTHER (X) 1 truck driver & 2 mechanics

QUALITY OR WORKMANSHIP:

Good, but slow

PROGRESS OF WORK AND WORK BEING PERFORMED:

Working in east portion of site.
trackhoe w/ bucket removing concrete slab
dump truck transporting concrete
large dozer doing cut & fill
small dozer push grass out of area

Trackhoe with hammer repaired and work on pad 2
by mid-afternoon ~ 2:00pm
Samsung Trackhoe delivered to site ~ 3:00

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Power sprayer for water truck not working
SLC's mechanic continues to work on trackhoe w/ hamr.

VIDEO DOCUMENTATION: Tape 2
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Witmer Road Recontouring DATE 7/23 1998

WEATHER cloudy V. Camp TIME 4:00 TEMP 85 HIGH 65 LOW

GENERAL INFORMATION: Rain overnight stopped at 7:00am Wind SW 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hutton</u>	OWNER REPR.		YES (X)	NO ()	() 7:00-5:00
	ARCH. REPR.		YES ()	NO ()	()
<u>John Kuhn</u>	GEN CONT. REPR		YES (X)	NO ()	() 7:00-
<u>Gary Carlton</u>			YES (X)	NO ()	() 7:30 -
			YES ()	NO ()	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2): OTHER (X) 1 truck driver

QUALITY OR WORKMANSHIP: _____

PROGRESS OF WORK AND WORK BEING PERFORMED:

1 dozer (John Deere) doing cut & fill in SE basin
1 trackhoe w/ hammer busting concrete on Pad 2
1 trackhoe w/ bucket removing unsuitable material from southeast basin & loading dump truck
Samsung Trackhoe
1 dump truck transporting unsuitable material into area of large fill

Equipment not being used = small dozer, Komatsu dozer, trackhoe & water truck

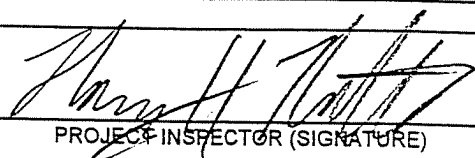
PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Water truck gas powered pump being repaired

VIDEO DOCUMENTATION: Tape 2

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____


PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT _____ DATE 7/24 19____
WEATHER Cloudy Wind W 5-10 TIME Aug TEMP 75 HIGH 65 LOW _____
GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skiff/Hir/Alan</u>	OWNER REPR.	_____	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/> 7:00-4:30
_____	ARCH. REPR.	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/>
<u>John Kubler</u>	GEN CONT. REPR	_____	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/> 7:00-10:00
<u>Greg Cutler</u>	_____	_____	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/> 12:30-2:30
<u>Art Reinbridge</u>	_____	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/> 11:00-12:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2): OTHER (X) 1 truck driver

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 dozer working in basin 2 cut & fill
- 1 operator on hoe w/ hammer busting concrete in basin 2
- 1 operator in Samsung excavation concrete / fill in basin
- 1 truck driver hauling material
- 1 grade stake foreman
- 1 laborer

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Very Large Concrete Foundation Wall where cut-off wall passes through Area A
Large amount of perched water in Area A

VIDEO DOCUMENTATION: Tape #2
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW W. Frier Road Reconfiguration DATE 7/27 1998
WEATHER Clear Sunny TIME Aug. TEMP 80 HIGH 70 LOW _____
GENERAL INFORMATION: Wind South 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Hutton</u>	OWNER REPR.	_____	YES (X)	NO () 7:30-5:15
_____	ARCH. REPR.	_____	YES ()	NO ()
<u>John Kuhn</u>	GEN CONT. REPR	_____	YES ()	NO () 7:00-10:00
<u>Gray Gattin</u>	_____	_____	YES (X)	NO () 7:30-8:30
_____	_____	_____	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (1): OTHER (X) 1 truck driver

QUALITY OR WORKMANSHIP:

Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

1 Tractorhoe busting concrete in Southeast Area
1 Tractorhoe pulling up concrete and loading Truck
1 Truck transporting concrete to fill area
1 Dozer cut & fill in Area A

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Addition concrete uncovered along cut off wall.

VIDEO DOCUMENTATION: Tape # 2

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

Gray Gattin
PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW W. Tracer Road Sec 21/21/12 DATE 7/29 1998
 WEATHER Sunny Wind SW 5-10 TIME After TEMP 65 HIGH 80 LOW _____

GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.				
<u>Skip Fulton</u>	OWNER REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7:15-7:17
<u>Gary Cotton</u>	ARCH. REPR.	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
_____	GEN CONT. REPR	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7:00-8:30
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS 3: LABORERS 2: OTHER 1 truck driver

QUALITY OR WORKMANSHIP: _____

Good

PROGRESS OF WORK AND WORK BEING PERFORMED: _____

1 dozer doing cut & fill in Basin # 5
and uncovering concrete that needs to be bas-ed

1 tractor excavating soil & concrete in Basin # 2

1 tractor busting concrete in Basin # 2

1 dump truck moving soil & concrete in Basin # 2

1 laborer cleaning metal debris and operation
water truck on needed

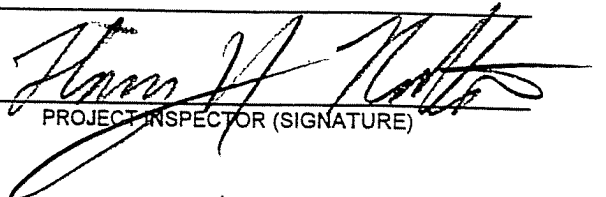
1 laborer doing grade stakes & foreman

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: _____

VIDEO DOCUMENTATION: Tape # 3
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW W. Trer Road Sec. 24 DATE 7/29 1998
WEATHER Partly Cloudy Wind TIME 4:10 TEMP 80 HIGH 65 LOW
GENERAL INFORMATION: NW 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Patton</u>	OWNER REPR.		YES (X)	NO () 7:30-6:30
	ARCH. REPR.		YES ()	NO ()
<u>John Eubank</u>	GEN CONT. REPR.		YES (X)	NO () 7:00-10:00
<u>Gregy Sartin</u>			YES (X)	NO () 7:00-8:30
			YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2) OTHER (X) 1 trucker

QUALITY OR WORKMANSHIP:

Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 Dozer doing cut & fill in basin # 5
- 1 trackhoe locating concrete in basin # 2 (Area A)
- 1 trackhoe excavating concrete & soil in basin # 2
- 1 truck hauling material to fill area in basin # 2
- 1 laborer gutting area
- 1 laborer/forman checking grade stakes

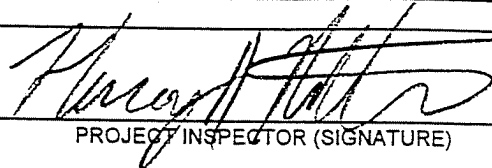
PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Old scale found near stake # 140. Removed w/ hammer and big trackhoe
Bags containing dust from baghouse found along north side of south perimeter road. Dust sampled and sent to lab.

VIDEO DOCUMENTATION: Take # 3

PHOTO DOCUMENTATION: 1

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Widener Load Recontouring DATE 7/30 1998
 WEATHER Cloudy w/ light sprinkles TIME 17:00 TEMP 75 HIGH 60 LOW _____
 GENERAL INFORMATION: Wind S at 5mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.				
<u>Skip Huffman</u>	OWNER REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7:30-5:00
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
_____	GEN CONT. REPR	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7:00-10:00
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2): OTHER (X) 1 trucker

QUALITY OR WORKMANSHIP: _____

Good

PROGRESS OF WORK AND WORK BEING PERFORMED: _____

- 1 Digger doing cuts & fills in basin #4
- 1 Tractor Samsung Excavating Concrete from Basin #5
- 1 Dump Truck transporting concrete out of Basin #5
- 1 Tractor busting concrete in basin #5 from 7-9:00
then switched to tractor w/ bucket to
load up steel beam scale house area
and steel in area of old camp.

Old water truck brought on site

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: _____

VIDEO DOCUMENTATION: Tape #3
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Water Pond Recontouring DATE 7/31 1998
 WEATHER Sunny Wind NE 5-10 TIME Ang TEMP 75 HIGH 60 LOW _____
 GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.				
<u>Clark Hutton</u>	OWNER REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	<u>7:00-9:30</u>
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
<u>Gene Carlton</u>	GEN CONT. REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	<u>7:00-10:00</u>
<u>Mike Hinton</u>	_____	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	<u>7:00-5:30</u>
<u>Kevin Glasser</u>	_____	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	<u>8:30-10:30</u> <u>8:30-10:30</u>

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS : LABORERS : OTHER 1 truck driver

QUALITY OR WORKMANSHIP: _____

Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

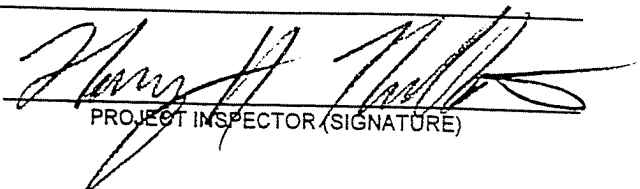
- 1 Dozer doing cut & fill in Basin 5 4 & 2
- 1 trackhoe bucket concrete in Basin 5
- 1 trackhoe loading concrete in Basin 5
- 1 dump truck loading/hauling concrete Basin 5
- 1 water truck working in basin 5
- 1 laborer removing steel/applying water in basin 5
- 1 laborer/foreman doing grade stakes

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: _____

VIDEO DOCUMENTATION: Tape # 3
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW Winter Road Recontouring DATE 8/3 1998
 WEATHER Sunny Wind N to NE 0-5 TIME Aug TEMP 70 HIGH 95 LOW _____
 GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.				
<u>Skip Patton</u>	OWNER REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7:00-5:30
_____	ARCH. REPR.	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
_____	GEN CONT. REPR	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2): OTHER (X) 1 truck driver

QUALITY OR WORKMANSHIP: Good but slow

PROGRESS OF WORK AND WORK BEING PERFORMED:

Tractor w/ hammer continues to bust concrete in basin #5

Tractor / skid steer loads steel from scale into roll off container and loads concrete from Basin 5

Digger doing cut & fill in Area A Basin 2

One laborer cutting steel & watering site

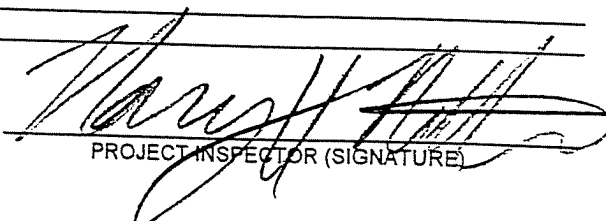
One laborer/foreman in office doing paper work driving water truck checking grade stakes
Truck driver helping laborer w/ cutting steel

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape # 3
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW Wetmore Pond Recontouring DATE 8/4 1998
 WEATHER cloudy Wind East 0-5 mph TIME Aug TEMP 85 HIGH 90 LOW

GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.			
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
_____	ARCH. REPR.	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
_____	GEN CONT. REPR	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>

7:00-5:30

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (2): OTHER (X) 1 Trucker

QUALITY OR WORKMANSHIP:

Good, but slow going removing concrete

PROGRESS OF WORK AND WORK BEING PERFORMED:

7:00-9:00

1 Dozer doing cut & fill in Basin 2

1 Trackhoe w/ hammer busting concrete in Basin 5
1 Trackhoe (same) digging & loading concrete in Basin 5

1 Water Truck watering near Basin 5 as need

9:00-

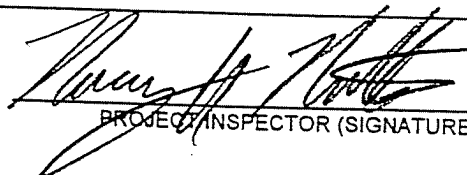
Trackhoe w/ hammer busting concrete in Basin 5
Trackhoe w/ small bucket installing culvert & driveway
1 Dozer cut & fill in Basin 2
1 Water Truck watering site

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape # 2

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)



PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW' Wilmer Road Site Remediation DATE 8/5 1998
 WEATHER Cloudy Wind NE 0-5 TIME 1440 TEMP 80 HIGH 70 LOW
 GENERAL INFORMATION: Light Rain Occured overnight

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>[Signature]</u>	OWNER REPR.	_____	YES ()	NO () 7: - 5:30
<u>John Kuhn</u>	ARCH. REPR.	_____	YES ()	NO ()
<u>Guy Van Doren</u>	GEN CONT. REPR	_____	YES (X)	NO () 7: - 9:05
<u>Owner Rep</u>	OWNER REPR.	_____	YES ()	NO () 8: - 10:30
_____	_____	_____	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (2): OTHER (X) 1 Truck Driver 2 Surveys

QUALITY OR WORKMANSHIP:

Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

Am
 Laborer cut rebar from concrete in Basin 5
 Laborer/Foreman running grades east
 Trucker hauling soil out of Basin 2 to Hink on top of ramp
 Trackhoe (Samson) loading soil out of Basin 2
 Trackhoe w/ hammer busting concrete in Basin 2 near cut off wall
 Dozer cut & fill in Basin 2
 Dozer cut & fill on top of old ramp. Mainly filling in voids between concrete w/ fine soils loaded out of Basin 2 by Samsons.

Pm
 Laborer continue rebar in Basin 5
 Labor / Foreman running grade stakes east
 Trackhoe (Samson) loading out soil cut from Basin 3
 Trackhoe w/ hammer busting concrete near SE corner of landkill
 Dozer doing cut & fill in area of old ramp
 Dozer doing cut & fill in Basin 2

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Type 3
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

[Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Witmer Road Recontouring DATE 8/6 1998
 WEATHER Light Rain & Cloudy TIME Ag TEMP 75 HIGH 170 LOW _____
 GENERAL INFORMATION: Wind E Smpk

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Hutton</u>	OWNER REPR.	_____	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/> 7:30-8:00
<u>John Kuhn</u>	ARCH. REPR.	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/>
_____	GEN CONT. REPR	_____	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/> 7:00-10:00
_____	_____	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/>
_____	_____	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/>

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (2): OTHER (x) 1 Trucker 2 Surveyors

QUALITY OR WORKMANSHIP: Good

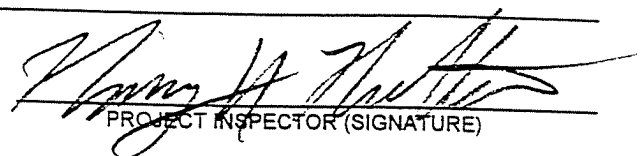
PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 Tractor w/ hammer bucket concrete pile near SE corner of land 11
- 1 Tractor Samsung loading wood debris and soil from Basin 3
- 1 Dozer (John Deere) grading cut & fill in Basin 2
- 1 Dozer (Cat 550) doing finish grades in Basin 2
- 1 Laborer cutting rebar in Basin 5
- 1 Laborer/Foreman directing work.

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 3
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)


 PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW Witter Road Recontouring DATE 8/7 1998
WEATHER Hot Humid TIME Am TEMP 85 HIGH 70 LOW _____
GENERAL INFORMATION: w 3w 5 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hutton</u>	OWNER REPR.	_____	YES ()	NO ()	<u>7-6:00</u>
<u>John Kuhn</u>	ARCH. REPR.	_____	YES ()	NO ()	<u>7-11:00</u>
<u>Mike Hinton</u>	GEN CONT. REPR	_____	YES ()	NO ()	<u>8:30-10:00</u>
	<u>DEC</u>	_____	YES ()	NO ()	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (2): OTHER (x) 1 Trucke 2 surveys

QUALITY OR WORKMANSHIP: _____

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 Dozer doing finish grade in Basin #2
- 1 Dozer grading Basin 5
- 1 Compactor compacting in Area A & Old Ramp Area
- 1 Tractor excavating material
- 11:00 - 4:00 excavated 2 drums & piles
of dust/bags and loaded
into roll off containers

Laborer ran water truck 11:00-4:00 water drum & dust
Foreman set up for installing catchment Basin
Tractor drove dump truck and moved material
from Basin #3 to Area A

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 3 & start of Tape 4
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW W. Iner East Recombination DATE 6/10 1998
WEATHER Cloudy some lt. Drizzle TIME 1:45 TEMP 85 HIGH 70 LOW _____
GENERAL INFORMATION: Wind SW 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.				
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	7:30-6:00
_____	ARCH. REPR.	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
<u>Art Pettibridge</u>	GEN CONT. REPR	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	8:00-8:30
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (2): OTHER (X) 1 Trucker, 2 Surveyors

QUALITY OR WORKMANSHIP:

Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

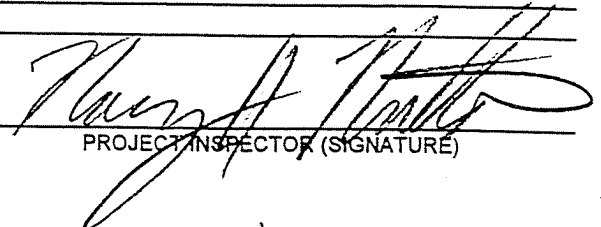
1 Dozer (John Deere) clear plants & root mat west of landfill
then doing cut & fill after surveyor marks stakes
1 Dozer in Area A doing cut & fill
1 Tractor w/ hammer busting concrete in Basin 5
1 Compactor (Rad Foot Vibratory) compacting Basin 6
1 Laborer checking grade stakes
1 foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape # 3
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Wetmore Road Recontouring DATE 8/11 1998
WEATHER Mostly Sunny & Cool TIME Five TEMP 80 HIGH 65 LOW 55
GENERAL INFORMATION: Wind West 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skiffington</u>	OWNER REPR.		YES (x)	NO () 7:30 - 5:30
	ARCH. REPR.		YES ()	NO ()
	GEN CONT. REPR		YES ()	NO ()
			YES ()	NO ()
			YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (2): OTHER (x) 2 surveyors

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 trackhoe excavating rail scale
- 1 dozer doing cut and fill along south access road
- 1 dozer doing cut & fill along south access road
- 1 backhoe working on south access road
- 1 laborer picking up steel & debris from Area A
- 1 foreman doing grade stakes/running job

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Work on rail scale

- 1 trackhoe 7:00 to 2:00pm
- 1 dump truck 12:00 to 2:00pm

VIDEO DOCUMENTATION: Tape # 3
PHOTO DOCUMENTATION:

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street, ● St. Augustine, FL 32084 ● (904) 824-6999

INSPECTION REPORT

PROJECT SK4) W. 7th Ave Road Recontouring DATE 8/12 1998
WEATHER Cloudy & Cool TIME High TEMP 75 HIGH 165 LOW

GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.			
<u>Skip Hutton</u>	OWNER REPR.		YES	(X)	NO	() 7:30-6:00
	ARCH. REPR.		YES	()	NO	()
<u>John Kuhn</u>	GEN CONT. REPR		YES	(X)	NO	() 7:00-2:00
			YES	()	NO	()
			YES	()	NO	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (2): OTHER ()

QUALITY OR WORKMANSHIP:

Good
Hour Worked 7:00 - 3:30

PROGRESS OF WORK AND WORK BEING PERFORMED:

Backhoe excavation cut area from east end of Basin 5
Dzer doing cut & fill in east end of Basin 5
Dzer grading large "boney" concrete in north end of Basin 2
Tractor removing large "boney" concrete from south edge of Basin 2 just north of access road

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: The use of sterilant was questioned by John Kuhn. I told him it was required. Workers stopped at 3:30

VIDEO DOCUMENTATION: Tape #3
PHOTO DOCUMENTATION:

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW) Winter Road Recontouring DATE 8/13 1998
WEATHER Clear & Sunny TIME Aug TEMP 180 HIGH 60 LOW
GENERAL INFORMATION: Wind West 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.				
<u>Skid H. Han</u>	OWNER REPR.	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	<u>7:30 - 5:00</u>
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	<u></u>
_____	GEN CONT. REPR	_____	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	<u>7:30 - 11:00</u>
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	<u></u>
_____	_____	_____	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	<u></u>

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (2): OTHER 2 Surveyors

QUALITY OR WORKMANSHIP:

Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

1 dozer working in eastern part of Basin 2
1 dozer working in northern part of Basin 2
1 trackhoe removing extra materials (fines) from Basin 5
1 pad foot roller compacting Basin 2 & 5
1 laborer driving dump truck
1 laborer/foreman running job.

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Start to pick rocks & debris in Basin 2 ~ 4:00

VIDEO DOCUMENTATION: Tape 3
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

John Kuhn
PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW W. Emerald Celebration DATE 8/14 1998
 WEATHER Cloudy TIME 1:45 TEMP 80 HIGH 70 LOW
 GENERAL INFORMATION: Wind West 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	<input checked="" type="checkbox"/>	NO <input type="checkbox"/> () 7-7:00
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	<input type="checkbox"/> ()	NO <input type="checkbox"/> ()
<u>Mike Hinton</u>	GEN CONT. REPR.	_____	YES	<input checked="" type="checkbox"/> ()	NO <input type="checkbox"/> () 7-6:00
<u>Kenan Glazer</u>	_____	_____	YES	<input checked="" type="checkbox"/> ()	NO <input type="checkbox"/> () 8:30-9:00
_____	_____	_____	YES	<input checked="" type="checkbox"/> ()	NO <input type="checkbox"/> () 8:30-9:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:
 OPERATORS (4): LABORERS (2): OTHER (1) = Surveyor 12-5:00

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:
Work from 7-9:00 am or about 9:30
1 dozer in NE of property doing cut #6:11 (John)
1 dozer working in Basin 5
1 backhoe working in Area A collecting steel
1 backhoe working ? Paul?
1 laborer picking up steel & rocks
1 laborer directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Weekly site meetings
Gave Hinton & Kuhn TCLP results show hgz lead levels
Kuhn stopped work and sent all workers to hospital
Review health & safety and work plan

VIDEO DOCUMENTATION: TAPE 3
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Warner Road DATE 8/17 1998
WEATHER Warm & Humid TIME PM TEMP 85 HIGH 75 LOW 65

GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.			
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	(x)	NO	() 7:00 - 7:30
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	()	NO	()
<u>Don Kuhn</u>	GEN CONT. REPR.	_____	YES	()	NO	() 7:00 - 10:00
<u>Art Ketibridge</u>	_____	_____	YES	()	NO	() 7:00 - 10:00
<u>Meet w/ SLC (Don John & Art)</u>	_____	<u>1:00 - 4:00</u>	YES	()	NO	() 7:00 - 10:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: _____

OPERATORS (4): LABORERS (2): OTHER ()

QUALITY OR WORKMANSHIP: _____

None

PROGRESS OF WORK AND WORK BEING PERFORMED: _____

None

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: _____

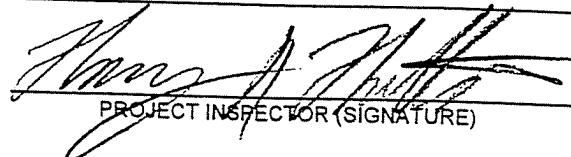
No work completed. Workers sent home by SLC between 8-9 am. Spent 7:00-10:00 then 1:00 to 4:00 discussing issues with SLC

VIDEO DOCUMENTATION: _____

PHOTO DOCUMENTATION: _____

Tape 3

PROJECT INSPECTOR (PRINT)


PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

Tuesday

PROJECT SKW Wintner Road DATE 8/18 1998
 WEATHER Rainy & wet in am TIME Hvg TEMP 70 HIGH 65 LOW
 GENERAL INFORMATION: Wind NW 5mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>SKP Hutton</u>	OWNER REPR.		YES ()	NO () 7:00 - 7:30
<u>John Kuhn</u>	ARCH. REPR.		YES ()	NO ()
<u>Don Kuhn</u>	GEN CONT. REPR		YES ()	NO () 8:00 - 6:30
<u>Art Pethitbridge</u>			YES ()	NO () 7:30 - 10:00
<u>Tim Orouke & Dan Orouke</u>			YES ()	NO () 8:00 - 9:30

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: 8:00-5:30

OPERATORS (4): LABORERS (2): OTHER (x) 2 surveyors

QUALITY OR WORKMANSHIP: Fair
workers were very slow and
deliberately stalling

PROGRESS OF WORK AND WORK BEING PERFORMED:

8-11:00 Worker training completed by
Tim Orouke CIH. Trained on lead hazards
health & safety & personal protective clothing.
Fit tested all employees for full face
respirator w/ dust filters. Also review personal
air monitoring requirements & procedure.

12:30 to 1:00 construct worker decon area
1:00 to 1:30 suit up into level D protection
1:30 to 4:00 1 dozer working in Basin 5 doing
cut and fill operator had personal air monitor
1 backhoe in Basin 2 collecting steel
1 trackhoe busting concrete in Basin 5
1 trackhoe transferring waste from containers w/air monitor
1 laborer picking up steel w air monitor
1 laborer opening covers on containers

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:
Worker instructed to stop working if they
feel uncomfortable.

VIDEO DOCUMENTATION: Tape # 3
 PHOTO DOCUMENTATION:

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

8/19/98

Wednesday

SKW Winter Road

Cool

70 60

Wind NE 5-5 mph

Skip Hutton

7:00 - 9:30

John Kuhn

7:00 - ?

Art P.

7:00 - ?

4 operators 2 loader working in level C
Good 1 IH doing air monitoring

1 dozer cutting grade in NE corner of landfill

1 dozer low final grade in Area A

1 trackhoe removing blue grey dirt from southern berm and placing it in cutters

1 backhoe collecting steel in Area A

1 laborer picking steel, rocks wood from subgrade

1 laborer/foreman running crews/supervising work

Special Areas:

IH places 5 air monitors on workers during most of the 6 hour shift.

5 loads of clay brought on-site for covering lower end of eastern ramp road. 3 loads were reject because of roots and dryness and poor quality clay

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INSPECTION REPORT

PROJECT SKW Witterer Pond DATE 8/20 1998
 WEATHER Clear sunny & cool TIME 2:15 TEMP 70 HIGH 50 LOW
 GENERAL INFORMATION: Wind South

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skiffington</u>	OWNER REPR.	_____	YES ()	NO () 6:45-8:00
<u>John Kuhn</u>	ARCH. REPR.	_____	YES ()	NO ()
<u>Art Kost</u>	GEN CONT. REPR	_____	YES ()	NO () 6:30-
<u>Mike Hinton</u>	_____	_____	YES ()	NO () 2:00-
			YES ()	NO () 8:30-10:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER (2) Surveyors

QUALITY OR WORKMANSHIP: poor - SLC failed to put out community air monitors and had a dozer outside the area of agreed construction activity

PROGRESS OF WORK AND WORK BEING PERFORMED: start to lay clay on sub base

- 1 dozer operator laying clay
- 1 operator compacting clay
- 1 operator installing separator on hose then compacting cut off wall
- 1 operator excavating cut off wall w hoe
- 1 laborer directing clay trucks
- 1 laborer grading stakes / supervision
- 1 laborer washing trucks
- John Kuhn driving water truck

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Community air monitors not put out. 1 dozer operator working in Basin 5 when SLC agreed that all work would be limited to Basin 2

VIDEO DOCUMENTATION: Tape 3 & 4
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

Inspection Report

8/21/98

SKW Wintner Rd

Clear Sunny Warm 80-60

Wind East 5-7 mph

Mike Hiltner 9:00-10:30

Kevin Glase 8:30-12:00

John Kuhn

6:30-7:30

John Kuhn

7:00-6:00

Art f.

7:00-6:00

Workmanship:

Operators 4 Laborer 4 Supervisors 2

- Cut Off Wall Excellent

- Clay Cover poor Unable to

obtain cohesion between 1st

and 2nd lifts. 2nd lift

was rejected. Compactor

moving to fast unable to

obtain vibrated clay at fast rate.

clods are not being broken

down. Lifts put in to thin

4-5" in some places.

Progress

1 tractor excavating cut off wall

1 trackhoe/vibratory compactor compacting wa.

1 dozer spreading clay lifts

1 compactor compacting lifts

1 laborer in water track

1 laborer washing trucks

1 laborer directing trucks & picking stone

1 laborer doing grade stakes

Art directing/supervising cut off wall. John all over.

8/21/98
Inspection Report
cont.

Problem Areas Instructions

Approved subgrade in Area A except for wet area in east center between 324, 326, 412 & 414

Did not approve 1st lift or start of second lift. John Kuhn began placement of 2nd lift without approval. I inspected area where 2nd lift was being placed and observed several bare holes where 2nd lift did not adhere to 1st lift. I informed Art & John that the 2nd lift in that area was rejected. At that proper preparation of the 1st lift was required (ie more moisture & deeper scarification).

John said he would bring in a disk to blend the two areas together and then recompact it.

I have decided and will inform John tomorrow morning that he must complete this in a test area to prove to me it will work. If it doesn't work I will require the 2nd lift removed and reapplied.
Tape # 41

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INSPECTION REPORT

PROJECT SKW W. 7mer Rd. Recontouring DATE 8/22 1998
 WEATHER Sunny & Hot + Wind TIME 9:00 TEMP 80 HIGH 67 LOW _____
 GENERAL INFORMATION: Variance 0-3

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skyl Truttin</u>	OWNER REPR.	_____	YES ()	NO () 7:00-5:30
<u>Don Kuhn</u>	ARCH. REPR.	_____	YES ()	NO ()
<u>Kevin Glaser</u>	GEN CONT. REPR	_____	YES ()	NO () 6:30
<u>Patrick Mulcahy</u>	GZA	_____	YES ()	NO () 9:30
<u>John Danzer</u>	GZA	<u>8:00-11:00</u>	YES ()	NO () 7:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: Don Kuhn 2:00-3:30 8:10-10:30

OPERATORS (4): LABORERS (3): OTHER (1) GZA Tech & GZA Eng.

QUALITY OR WORKMANSHIP: Poor Scarification of top of
1st lift did not work. Still have not bonded
1st & 2nd lifts


- PROGRESS OF WORK AND WORK BEING PERFORMED:
- 1 dozer placing clay on approved subgrade
 - and also on top of 1st lift that has
 - not been approved (spoke to JK asked to stop
 - dozer)
 - 1 compactor compacting top of 1st lift and
 - top of unapproved second lift
 - 1 operator driving backhoe to collect core
 - 1 laborer directing trucks and picking stone
 - 1 laborer washing trucks
 - 1 laborer/foreman doing grade stakes

Don Kuhn was on site in afternoon to discuss problems w/ 2nd lift
Don said these problems are common and that SCC has to determine
method for placement. Don also asked that I pay more attention to the
big issues and don't sweat the little stuff. I asked Don to have Art or Gary
supervise the workers and oversee the problem areas with the clay cover
and cut-off wall. Don will consider.

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: 9:45 JK stopped delivery
of clay trucks because of problem with diskings
scarifying top of 1st lift. Informed JK 2nd lift does
not pass because it did not bond to lot. JK said he would disk
top of 1st lift in perpendicular directions and off-set stakes and re compact
area around original stake.

VIDEO DOCUMENTATION: Tape 4
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)


 PROJECT INSPECTOR (SIGNATURE)

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INSPECTION REPORT

PROJECT SKW W/Amrkl Recstruction DATE 8/24 19⁹⁸
 WEATHER Cloudy & Cool TIME 11:00 TEMP _____ HIGH 60 LOW _____
 GENERAL INFORMATION: Wind SW 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skylar Kuhn</u>	OWNER REPR.	_____	YES (X)	NO () 6:45-8:30
_____	ARCH. REPR.	_____	YES ()	NO ()
<u>John Kuhn</u>	GEN CONT. REPR	_____	YES (X)	NO () 6:30-5:30
<u>Art P.</u>	_____	_____	YES (X)	NO () 8:00?-5:30
<u>Don Kuhn</u>	_____	_____	YES (X)	NO () 2:30-5:30

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:
John Damsler 2:00 - 5:30 Mark Glynn 3:00 - 5:30
Todd from 62A 7:00 - 5:30

OPERATORS (4): LABORERS (4): OTHER ()

QUALITY OR WORKMANSHIP: Poor 2nd lift peeled off of top of 1st lift when it was disked. Area from #349 to 448 + 452 was rejected for the second lift.

PROGRESS OF WORK AND WORK BEING PERFORMED: Failed to get proper compaction around grade stakes

9:00 Wide track Dozer pulling up second lift in rejected area
Dozer looking up disk to disk top of 1st lift
Compactor compact area - wide track pulled up
Backhoe digging cut off wall
Water truck / Trailer wet down top of 1st lift
Small Dozer now pulling disk
Wide track dozer & large dozer spreading second lift.
1 Water Truck w/ laborer spreading water
1 laborer doing grade stake off-set, etc

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: 2nd lift was rejected between 349, 437 & 441 for second time. 1st time because dozer was not able to provide proper scarification. 2nd time because disk was not able to provide proper scarification. In both cases inadequate water was applied

VIDEO DOCUMENTATION: Tape 1 & Start Tape 5 @ 1:00 pm
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

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INSPECTION REPORT

PROJECT SKW N. Hwy East Clearing DATE 8/25 19 98
WEATHER Cloudy Cool & Humid TIME Low TEMP 75 HIGH 60 LOW
GENERAL INFORMATION: Wind SE 5 to 10 mph Heavy Rain Overnight Flooded Basins

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	2	3	4	5
<u>Skid Station</u>	OWNER REPR.	_____	YES () NO ()	()	()	()	()
_____	ARCH. REPR.	_____	YES () NO ()	()	()	()	()
<u>Art P.</u>	GEN CONT. REPR	_____	YES () NO ()	()	()	()	()
<u>Don Kuhn</u>	_____	_____	YES () NO ()	()	()	()	()
<u>Todd From G2A</u>	_____	_____	YES () NO ()	()	()	()	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER ()

QUALITY OR WORKMANSHIP: _____

PROGRESS OF WORK AND WORK BEING PERFORMED:

Trackhoe excavating cut off wall trench
Trackhoe w/ tamper, compacting cut off wall trench
Digger doing cut & fill in Basin 5
Backhoe picking up steel wood ties & debris
Laborer picking up steel wood & debris
Laborer helping?? cut off wall work & driving site dump truck
Laborer/foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: _____
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____

PROJECT INSPECTOR (SIGNATURE) _____

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INSPECTION REPORT

PROJECT SKW metals & Alloys W. timer Rd DATE 4/26 1998
WEATHER _____ TIME _____ TEMP _____ HIGH _____ LOW _____
GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Hutton</u>	OWNER REPR.	_____	YES ()	NO () <u>7:00-5:30</u>
<u>John Kuhn</u>	ARCH. REPR.	_____	YES ()	NO ()
<u>Art P</u>	GEN CONT. REPR	_____	YES ()	NO () <u>7:00-4:30</u>
<u>Todd (can't read)</u>	_____	_____	YES ()	NO () <u>7:00-4:30</u>
_____	_____	_____	YES ()	NO () <u>7:00-4:30</u>

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER ()

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

1 operator pushing back 2nd lift in failed area
1 operator disked top of failed area under disk
1 operator in track hoe w/ bucket excavation cut off track
1 operator in track hoe w/ compactor completing cut-off
2 laborer picking up soil
1 laborer/foreman doing grade stakes
1 laborer driving water truck

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Conference all in am
between Ed Brednick, Guy Van Doren and Don Kuhn
to resolve letter from Mark Glynn

VIDEO DOCUMENTATION: Tape # 4
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW Water Rd Recontouring DATE 8/27 1998
WEATHER Clear Sunny Warm TIME After TEMP 80 HIGH 60 LOW

GENERAL INFORMATION: Wind SE @ 5 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Hutton</u>	OWNER REPR.	<u></u>	YES ()	NO () 7:00-7:00
<u>Juan Kuhn</u>	ARCH. REPR.	<u></u>	YES ()	NO ()
<u>Art P.</u>	GEN CONT. REPR	<u></u>	YES ()	NO () 7:00-7:00
<u>Inda GZA</u>	<u></u>	<u></u>	YES ()	NO () 7:00-7:00
			YES ()	NO () 7:00-5:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER (0) 2 Surveyors

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

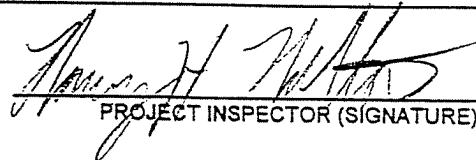
- 1 Operator picking up steel w/ rubber tire backhoe
- 1 Operator in dozer with disk ^{preparing} second lift
- 1 Operator in dozer tracking over disk area
- 1 Operator in trackhoe w/ bucket extending out off wall
- 1 laborer in water truck
- 1 laborer/foreman checking grades
- 2 laborers picking up steel

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: One water truck is not capable of supplying enough water for the size of the work area, SLC need 2 or 3 water trucks on site to keep clay moist

VIDEO DOCUMENTATION: Tape 4
PHOTO DOCUMENTATION:

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



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INSPECTION REPORT

PROJECT SKW Witmer Rd Recontouring DATE 9/28 19 98
WEATHER _____ TIME _____ TEMP _____ HIGH _____ LOW _____

GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.
<u>Skip Hutton</u>	OWNER REPR.	_____	YES (X) NO () 6:45
<u>John Kuhn</u>	ARCH. REPR.	_____	YES () NO ()
<u>Art Kethybridge</u>	GEN CONT. REPR	_____	YES () NO () 6:30
<u>Mike Hinton</u>	_____	_____	YES () NO () 6:30
<u>Kevin Glaser</u>	_____	_____	YES () NO () 8:30-10:30 8:30-11:30

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER (X) GZA Tech

QUALITY OR WORKMANSHIP: Good

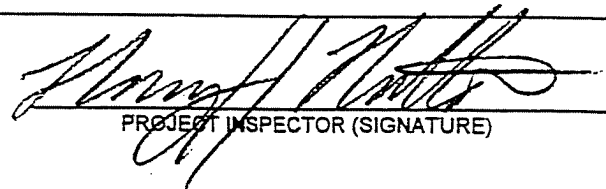
PROGRESS OF WORK AND WORK BEING PERFORMED:

1 trackhoe excavating cut off wall
1 trackhoe w/ compacting plate compacting wall
1 wide track dozer placing clay lifts
1 padfoot compactor compacting lifts
1 laborer washing truck tires
1 laborer directing trucks
1 laborer driving water truck
1 laborer/foreman doing grade stakes

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Need 1 or 2 additional water trucks. No water placed on top of 3rd lift to prevent drying. No top soil placed on top of 3rd lift. Cut off wall made a 5-6 ft jog to east near stake 305 because of massive 4ft thick concrete

VIDEO DOCUMENTATION: Tape 5
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)



PROJECT INSPECTOR (SIGNATURE)

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INSPECTION REPORT

PROJECT SKW W. Trer Rd. Recontouring DATE 8/31 19 98
 WEATHER Clear & Sunny TIME 4:00 TEMP 75 HIGH 60 LOW
 GENERAL INFORMATION: Wind West 5-8 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hattor</u>	OWNER REPR.	_____	YES	()	NO () 7:30-7:00
<u>John Kuhn</u>	ARCH. REPR.	_____	YES	()	NO ()
<u>Art Kethbridge</u>	GEN CONT. REPR	_____	YES	()	NO () 7:00
<u>Todd from GZA</u>	_____	_____	YES	()	NO () 7:00
_____	_____	_____	YES	()	NO () 7:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER ()

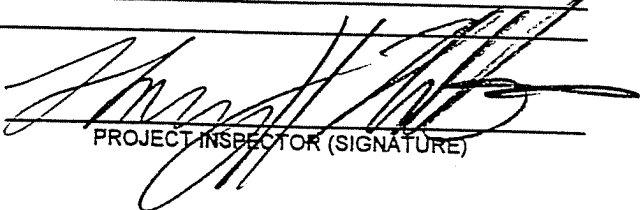
QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 tractor w/ bucket excavating cutoff wall
 - 1 tractor w/ compactor compacting cutoff wall
 - 1 dozer grading clay lifts
 - 1 vibratory pad foot roller compacting clay lifts
 - 1 watertruck (laborer driving) adding water to lifts
 - 1 laborer directing clay trucks
 - 1 laborer washing clay trucks
 - 1 laborer/foreman checking grades directing work
- Art K. directing work. Apply 2 passes with water truck from 491, 492 & 493 to 470, 471 & 472. Area was scarified on Friday.

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 6
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) 

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INSPECTION REPORT

PROJECT SKW Witmer Rd Recontouring DATE 9/1 1998
 WEATHER partly cloudy TIME _____ TEMP _____ HIGH _____ LOW _____
 GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Hutton</u>	OWNER REPR.	_____	YES ()	NO () 7:00-8:30
<u>Art Pethbridge</u>	ARCH. REPR.	_____	YES ()	NO ()
<u>Todd Schard</u>	GEN CONT. REPR	_____	YES ()	NO () 7:00
_____	_____	_____	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER ()

QUALITY OR WORKMANSHIP: Good

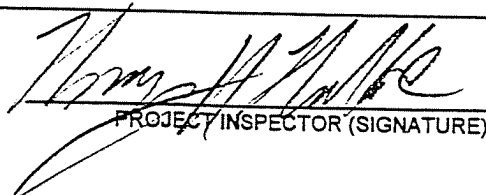
PROGRESS OF WORK AND WORK BEING PERFORMED:

Truckhoe w/ bucket excavation cut-off wall
Truckhoe w/ compactor compacting clay into cut off wall
Wide track dozer w/ heavy blade placing clay in lifts
Rad front vibratory compactor compacting lifts of clay
1 laborer in water truck circulating water on clay & roads
1 laborer directing clay trucks to off loading areas
1 laborer washing truck tires
1 laborer/foreman directing work & tending grade stakes

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Laborer's Job Steward said they have problem w/ filming of workers by LAN. talked over issues w/ Art P., Harry, And Mess and skip.

VIDEO DOCUMENTATION: Tapes
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)



PROJECT INSPECTOR (SIGNATURE)

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INSPECTION REPORT

PROJECT SKW Witter Rd Recontouring DATE 9/2 1998
 WEATHER Rainy then clearing TIME _____ TEMP 75 HIGH 60 LOW _____

GENERAL INFORMATION: Wind SW 5-10mph Rain ended about 9:30 am

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Gutton</u>	OWNER REPR.	_____	YES ()	NO ()	() 7:00 - 4:30
<u>John Kuhn</u>	ARCH. REPR.	_____	YES ()	NO ()	()
<u>Art Pathybridge</u>	GEN CONT. REPR	_____	YES ()	NO ()	() 7:00 - 12:00
<u>Todd Schward</u>	_____	_____	YES ()	NO ()	() 7:00 - 4:30
_____	_____	_____	YES ()	NO ()	() 7:00 - 9:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER (1) → John Kuhn let 2 laborers off early at about 9:00 am

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 wide track dozer pushing off clay into lifts in south west area state 326 to 370 to 368 to 303
- 1 trackhoe w/ bucket loading material excavated from cut off wall into site dump truck
- 1 site dump truck & operator transporting material excavated from cut off wall to fill area on north side of landfill
- 1 small dozer w/ 6 way blade placing fill material on north side of landfill
- 1 laborer washing trucks
- 1 laborer/foreman doing grade stakes & supervising work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

rain delayed work and caused John Kuhn to change planned activities for the day. I suggested to Art Pathybridge that they consider recompacting the top of the 3rd lift to work rain water into lift and repair dessication cracks.

VIDEO DOCUMENTATION: Tape # 7

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)


PROJECT INSPECTOR (SIGNATURE)

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INSPECTION REPORT

PROJECT SKW W. 1stmer Rd Recontouring DATE 9/3 19 98
WEATHER Cloudy Cool TIME _____ TEMP 70 HIGH 58 LOW _____
GENERAL INFORMATION: Wind SW @ 5 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hutton</u>	OWNER REPR.	_____	YES ()	NO ()	() 7:00-5:30
<u>Art Rothbridge</u>	ARCH. REPR.	_____	YES ()	NO ()	()
<u>Todd Subera</u>	GEN CONT. REPR	_____	YES ()	NO ()	() 7:00-5:00
_____	_____	_____	YES ()	NO ()	() 7:00-3:30
_____	_____	_____	YES ()	NO ()	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (0): LABORERS (4): OTHER (x) 2 SURVEYORS 8:30-4:30
One operator off for the day

QUALITY OR WORKMANSHIP: Good

No work done on east side wall.

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator placing clay along fence line and
- fill according to of 3rd lift
- 1 operator compacting clay
- 1 operator pushing clay into stock piles
- 1 laborer directing trucks
- 1 laborer washing truck tires
- 1 laborer checking grade stakes
- 1 laborer ????

water truck used about 2 hours to wet area
near fence

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape # 8
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

[Signature]
PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW Metals & Alloys Water Pond DATE 9/14 1998
 WEATHER Cloudy then clearing TIME AM TEMP 75 HIGH 158 LOW
 GENERAL INFORMATION: Wind WNW 5-8 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>SKW Hutton</u>	OWNER REPR.	_____	YES	()	NO () 7:00 - 7:30
<u>Art Kethrbridge</u>	ARCH. REPR.	_____	YES	()	NO ()
<u>Kevin Blaser</u>	GEN CONT. REPR	_____	YES	()	NO () 7:00 - 6:30
_____	_____	_____	YES	()	NO () 8:30 - 9:00
_____	_____	_____	YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER (X) 2 surveyors 7:00 - 3:30

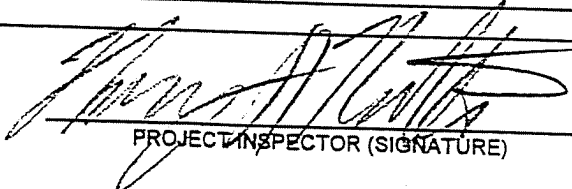
QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator & trackhoe excavating cut off wall A
- 1 operator & trackhoe w/ compactor compacting cut off wall
- 1 operator & w/ track loader fine grading slope
- 1 operator & dozer doing cut & fill work east of cut off wall B. Also using 550 Cat dozer to fine grade along border
- 1 laborer placing stone and making grade stone
- 1 laborer placing stone and filling stone holes w/ mortar
- 1 laborer placing stone & washing tires
- 1 laborer/foreman directing/supervising work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 8
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) 

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INSPECTION REPORT

PROJECT SKW W. Home of Recontouring DATE 9/5 1998
WEATHER _____ TIME _____ TEMP _____ HIGH _____ LOW _____

GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip [unclear]</u>	OWNER REPR.	_____	YES ()	NO ()	() 7:00 - 9:30
_____	ARCH. REPR.	_____	YES ()	NO ()	()
<u>Art [unclear]</u>	GEN CONT. REPR	_____	YES ()	NO ()	() 7:00 - 10:00
_____	_____	_____	YES ()	NO ()	()
_____	_____	_____	YES ()	NO ()	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (2): LABORERS (4): OTHER ()

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in wide track dozer placing top soil
- 1 operator in dozer roughing in top soil
- 1 laborer setting trucks
- 1 laborer washing trucks
- 1 laborer driving water truck
- 1 laborer/foreman doing grades

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: None
PHOTO DOCUMENTATION: 6

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SK43 Withner Rd Recontouring DATE 9/8 1998 Tuesday
WEATHER Partly cloudy Cool TIME Avg TEMP 165 HIGH 155 LOW
GENERAL INFORMATION: Wind 10-15

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.			
<u>Skay Trout</u>	OWNER REPR.	_____	YES	()	NO ()	7:30-5:30
<u>Hct Bethviridse</u>	ARCH. REPR.	_____	YES	()	NO ()	
_____	GEN CONT. REPR	_____	YES	()	NO ()	7:00-5:30
_____	_____	_____	YES	()	NO ()	
_____	_____	_____	YES	()	NO ()	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER 2 surveyors 1-5:30pm
QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in trackhoe w/ bucket constructing cut off wall A
- 1 operator in trackhoe w/ vibrator compacting wall A
- 1 operator in small dozer fine grading south berm
- 1 operator in wide track dozer preparing top of clay
- 1 laborer picking debris
- 1 laborer picking debris
- 1 laborer off setting stakes
- 1 laborer / foreman filling in where needed

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: No top soil on site.
Att said owner of clay & Hetch Trucking
have problems to figure out.

VIDEO DOCUMENTATION: Tape 8
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

Wednesday

PROJECT SKW Wilmer Rd Reconstruction DATE 9/9 19 98
 WEATHER Cloudy & Cool TIME 4:00 TEMP 60 HIGH 50 LOW
 GENERAL INFORMATION: Wind NW 10-15

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Steph Huth</u>	OWNER REPR.		YES ()	NO ()	<u>8:00-7:30</u>
<u>Art Ferrybridge</u>	ARCH. REPR.		YES ()	NO ()	
	GEN CONT. REPR		YES ()	NO ()	<u>7:00-5:00</u>
			YES ()	NO ()	
			YES ()	NO ()	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER ()

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in compactor working water into clay
- 1 operator in wide track dozer placing top soil
- 1 operator in trencher w/ bucket excavating cut off wall
- 1 operator in trencher w/ compactor compacting cut off wall
- 1 laborer spotting trucks
- 1 laborer picking roots from top soil & apply water from truck
- 1 laborer washing trucks
- 1 laborer/foreman supervising work & setting grade stakes

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Top soil ran from 7:30 to ~ 2:00pm then stopped. Top soil supply depleted a new source is needed by SLCC. Cut off wall work ended about 2:00pm because of large amounts of water in trench. SLCC attempted 6 foot wide wall but stopped to
VIDEO DOCUMENTATION: Tape 8
PHOTO DOCUMENTATION: _____

re-evaluated method, Health & Safety and what to do w/ water.

PROJECT INSPECTOR (PRINT)

[Signature]
 PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKV Water @ Recarboration DATE 9/10 19 98
WEATHER Clear Sunny 501 TIME 4:10 TEMP 65 HIGH 75 LOW 58
GENERAL INFORMATION: Wind SW 5mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Ekip Kutton</u>	OWNER REPR.	_____	YES	()	NO () <u>17:00-5:30</u>
<u>Mr. Feinbrun</u>	ARCH. REPR.	_____	YES	()	NO ()
_____	GEN CONT. REPR	_____	YES	()	NO () <u>17:00</u>
_____	_____	_____	YES	()	NO ()
_____	_____	_____	YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:
OPERATORS (4): LABORERS (4): OTHER (X) 2 surveyors
QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:
1 operator in wide track dozer fine grading Basin 4 & 5
1 operator in trackhoe excavating trench for pipe between Basin 2 & 5
1 operator in site dump truck moving material from excavation to fill area
1 operator in dozer placing fill material east of southeastern ramp on landfill
1 laborer doing grade stakes in Basin 4 & 5
1 laborer assisting trackhoe with grades for trench excavation
1 laborer assisting dozer operator w/ grading area east of south east ramp of landfill
1 laborer in water truck applying water to top of

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: _____

VIDEO DOCUMENTATION: _____
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) _____

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW W. Trer Road
WEATHER Partly Cloudy TIME Aug DATE 9/11 1998
GENERAL INFORMATION: Wind SW 10-15 TEMP 75 HIGH 65 LOW

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skiv Feather</u>	OWNER REPR.		YES ()	NO () 7:00-6:30
<u>Art K. Hedges</u>	ARCH. REPR.		YES ()	NO ()
<u>Mike Hinton</u>	GEN CONT. REPR.		YES ()	NO () 7:00-
<u>Kevin Glover</u>			YES ()	NO () 8:30-10:
<u>Scott SLC</u>	<u>Don Kuhn SLC</u>		YES ()	NO () 8:30-10:

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER ()

QUALITY OR WORKMANSHIP: Good

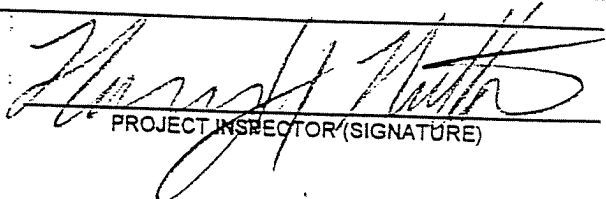
PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in wide track dozer ^{line} grading NW area
- 1 operator in dozer rough grading NW area
- 1 operator in trackhoe w/ bucket setting pipe & manhole
- 1 operator in backhoe bringing stone to pipe & manhole
- also run trackhoe w/ hammer to remove concrete next to manhole
- 1 laborer waters clay in am and pm
- also help with setting pipe & manhole
- 1 laborer helping with pipe & manhole
- 1 laborer doing grade checks in NW area
- 1 laborer foreman - supervising work and layout excavations for pipes & manhole

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Take 4
PHOTO DOCUMENTATION: 1

PROJECT INSPECTOR (PRINT)


PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW W. tower Rd DATE 9/12 19 98
WEATHER partly cloudy TIME 1:30 TEMP 75 HIGH 65 LOW 65
GENERAL INFORMATION: Wind West 5-6 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Trutton</u>	OWNER REPR.	_____	YES ()	NO () <u>8:30 - 5:00</u>
<u>Art Fetheridge</u>	ARCH. REPR.	_____	YES ()	NO ()
_____	GEN CONT. REPR	_____	YES ()	NO () <u>7:00 - 10:00</u>
_____	_____	_____	YES ()	NO ()
_____	_____	_____	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER (x) 2 surveyors 9:00 -

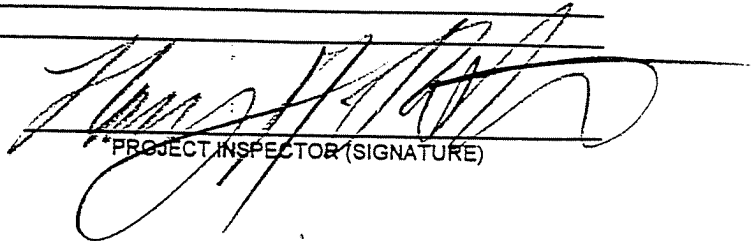
QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in dazer grading NW area
- 1 operator in trackhoe w/ bucket excavating pipe trench for tie in to manhole on Stolgers
- 1 operator in Telex Dump truck hauling soil/cement from trench excavation to NE area
- 1 operator in trackhoe w/ buster busting concrete for trench on Stolgers property.
- 1 laborer applying water to top of clay w/ water truck
- 1 laborer assisting w/ grade stakes in NW area
- 1 laborer assisting w/ trench excavation
- 1 laborer/foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: wide track dazer has hydraulic problem and is down. Art call from service/repair mechanic.

VIDEO DOCUMENTATION: Tape 8
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) 

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW Witmer Road tie contouring DATE 9/14 1998
WEATHER Hot & Muggy TIME Av TEMP 99 HIGH 65 LOW
GENERAL INFORMATION: Wind West 2-5 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>SK: Hutton</u>	OWNER REPR.	<u></u>	YES ()	NO () 7:00-6:30
<u>H. + 1 hybrid</u>	ARCH. REPR.	<u></u>	YES ()	NO ()
<u>Todd? SLC</u>	GEN CONT. REPR	<u></u>	YES ()	NO () 7:00-12
			YES ()	NO () 4-5:30
			YES ()	NO () 7:00-12

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4) LABORERS (4) OTHER (X) 2 surveyors

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in trackhoe w/ bucket excavating trench for tie in to manhole
- 1 operator in backhoe placing 1" stone in trench
- 1 operator in site dump truck removing soil from tie in excavation
- 1 operator in John Deere Dazer grading NW area
- 1 laborer putting brick & mortar around pipes in manhole
- 1 laborer helping with manhole work mixing mortar
- 1 laborer doing grade work in NW area
- 1 laborer forming & directing work and placing pipe in trench then backfill w/ 1" stone

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: UST uncovered which contained water w/ some diesel fuel. Vac Truck brought on site by Green Environmental which removed 2,100 gals.

VIDEO DOCUMENTATION: Tape 8
PHOTO DOCUMENTATION:

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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Tuesday

INSPECTION REPORT

PROJECT SLV Wilmer Pool Recontouring DATE 9/15 1998
 WEATHER Cloudy TIME 1:40 TEMP 75 HIGH 65 LOW _____
 GENERAL INFORMATION: Wind SW 3-15 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skir</u>	<u>OWNER REPR.</u>	_____	YES	()	NO () 7:03-7:30
<u>Art Vethybridge</u>	<u>ARCH. REPR.</u>	_____	YES	()	NO () 7:00-11:00
<u>Todd</u>	<u>GEN CONT. REPR</u>	_____	YES	()	NO () 7:00 -
<u>Jim</u>	<u>Green Env.</u>	_____	YES	()	NO () 7:00-12:00
<u>John</u>	<u>Green Env.</u>	_____	YES	()	NO () 7:00-10:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (): LABORERS (): OTHER 2 Surveyor

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

Am 7:45 to 11:15 1 operator in trackhoe excavates UST and backfills tank pit. Also used vibratory compactor for approximately 1 hr.
 7:45 to 11:45 1 laborer assist in tank excavation and covering of excavated soils
 7:00 - 12:00 Jim of Green Environmental oversees tank excavation.

1 operator remove top soil from new source
 1 operator back blading top of clay
 1 operator compacting top of clay
 1 laborer spotting trucks & picking roots
 1 laborer foreman checking grades pit & relocating drain pipe from Basin 4 to Basin 6

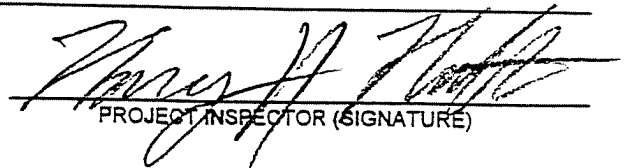
PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

UST removed from Stallberg, contaminated soil stockpiled and covered on Stallberg property.
 Composite soil sample collect from 4 walls and bottom of pit

VIDEO DOCUMENTATION: Tape 8
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

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Wednesday

INSPECTION REPORT

PROJECT SKW Witmer Rd Recontouring DATE 9/16/98
 WEATHER Cloudy in Am Clearing in pm TIME 4:00 TEMP 75 HIGH 80 LOW 60
 GENERAL INFORMATION: wind ENE 5-8mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skylar Ann</u>	OWNER REPR.	_____	YES	()	NO () 7:30-5:30
<u>Art Pettybridge</u>	ARCH. REPR.	_____	YES	()	NO ()
_____	GEN CONT. REPR	_____	YES	()	NO () 7:00
_____	_____	_____	YES	()	NO ()
_____	_____	_____	YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER ()

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in wide track dozer grading NW area in am then placing top soil west of cut off wall B
- 1 operator in rubber tire backhoe placing 1" stone in low areas on Stallberg property, then picking up stone from subgrade west of cut off wall B
- 1 operator loading cut material from NW into dump truck
- 1 operator busting concrete from Basin 5 in am then fine grading basin 5 and area around basin 2 to 5 tie in pipe with small dozer
- 1 laborer washing truck tires
- 1 laborer picking stone
- 1 laborer spotting trucks
- 1 laborer/foreman setting drain pipes & directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 8

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW Witmer Bld Recontaining DATE 9/17 19 98
WEATHER Foggy In AM then clear TIME 1:45 TEMP 75 HIGH 60 LOW
GENERAL INFORMATION: Wind NE 5-6 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Hutton</u>	OWNER REPR.	_____	YES ()	NO () 7:30-6:30
<u>Art Kethybridge</u>	ARCH. REPR.	_____	YES ()	NO ()
<u>Scott from SLC</u>	GEN CONT. REPR	_____	YES ()	NO () 7:00-11:00
_____	_____	_____	YES ()	NO () 7:00-12:00
_____	_____	_____	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER (2) surveyors

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

1 operator in wide track dozer placing top soil
1 operator in small dozer fine grading subgrade
1 operator in rubber tired backhoe picking up stone wood debris from top of subgrade and top of top soil.
1 operator in trackhoe w/ bucket loading stockpile of on site soil from Basin 3
Terrex Truck also used by 2 operators to move stockpiled soil from Basin 3 to other areas of site
1 laborer picking up stone wood debris
1 laborer spotting trucks
1 laborer washing truck tires
1 laborer/foreman setting pipes to interconnect basins and directing work

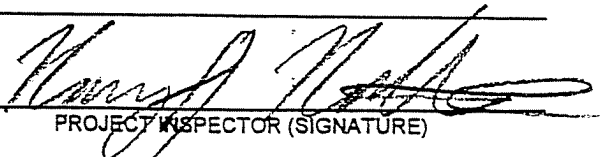
PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

3 loads of top soil rejected because they contained 30-50% clay in large blocky chunks.

VIDEO DOCUMENTATION: Tape 8
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

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Friday

INSPECTION REPORT

PROJECT SKW U-Home Rd Pecan Hammock DATE 9/18/98 1998
 WEATHER Clear Sunny Warm TIME Mid TEMP 80 HIGH 95 LOW
 GENERAL INFORMATION: Wind SE 5 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skid Stutton</u>	OWNER REPR.		YES	()	NO () 7:30-5:30
<u>Art F</u>	ARCH. REPR.		YES	()	NO () 7:00-12:00
<u>Scott Pfuhl</u>	GEN CONT. REPR		YES	()	NO () 7:00
<u>John Kuhn</u>	<u>SLC</u>		YES	()	NO () 8:00-12:00
<u>Karen Glasser</u>	<u>DEC</u>		YES	()	NO ()
<u>Todd Schura</u>	<u>GZA</u>		YES	()	NO () 1:00-

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER (2) surveyor

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator rolling subbase w/ smooth drum roller
- 1 operator fine grading w/ small dozer
- 1 operator in rubber tired backhoe picking up roots ect
- 1 operator in wide track dozer fine grading east side of landfill
- 1 laborer picking up roots
- 1 laborer picking up roots & run water truck one time over roots wash clay
- 1 laborer ?
- 1 laborer/fireman directing work

Also operator on roller moved to trackhoe and loaded rail ties in afternoon about 1:00pm or 12:45pm 1 laborer washing down tires w/ water truck while being loaded

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 8
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW DATE 9-19 1998
WEATHER Sunny TIME _____ TEMP 80° HIGH 70° LOW _____

GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
_____	OWNER REPR.	_____	YES ()	NO ()
_____	ARCH. REPR.	_____	YES ()	NO ()
_____	GEN CONT. REPR	_____	YES ()	NO ()
<u>Todd Schara</u>	<u>GZA</u>	_____	YES (X)	NO ()
_____	_____	_____	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER ()

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED: 1 operator is fine-grading sub-grade with Komatsu D55P Bulldozer.

- 1 Operator is fine-grading sub-grade with John Deere 550 Bulldozer.
- 1 Operator is loading topsoil with Komatsu 200 Backhoe into Terex D19 Dump Truck
- 1 laborer is hauling top-soil from North end of site to South end of site into on-site stockpile
- 1 laborer is picking stones, roots, and brush from top-soil previously installed.
- 1 laborer is over-seeing project activities and also setting grade stakes

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: _____

VIDEO DOCUMENTATION: _____

PHOTO DOCUMENTATION: _____

Todd Schara
PROJECT INSPECTOR (PRINT)

Todd Schara
PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW DATE 9-21 1998
 WEATHER Overcast TIME _____ TEMP 82° HIGH 73 LOW _____
 GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
_____	OWNER REPR.	_____	YES	()	NO ()
_____	ARCH. REPR.	_____	YES	()	NO ()
_____	GEN CONT. REPR	_____	YES	()	NO ()
<u>Art</u>	<u>SIC</u>	_____	YES	()	NO ()
<u>Scott Phoeel</u>	<u>GZA</u>	_____	YES	()	NO ()
<u>Todd Schara</u>	<u>Klette Surveying</u>	_____	YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: _____

OPERATORS (4): LABORERS (4): OTHER ()

QUALITY OR WORKMANSHIP: Good

- PROGRESS OF WORK AND WORK BEING PERFORMED:
- 1 Operator is breaking Terex D19 Dump truck with sub-grade material with the Komatsu 200 Backhoe.
 - 1 Operator is driving the Terex D19 Dump truck and transporting the sub-grade material on the north-east end of site.
 - 1 Operator is breaking and cutting up shrubs and brush to be hauled off site.
 - 1 Laborer is working with operator breaking and cutting up shrubs and brush to be hauled off site.
 - SIC is importing top-soil to be placed.
 - 1 operator is grading imported top-soil.
 - 1 laborer is washing down dump trucks that are leaving site.
 - 1 laborer is running water truck and wetting down haul roads to control dust.
 - 1 laborer is over-seeing project activities.
 - 1 operator is breaking up clumps of topsoil along fence along outside of cap area with John Deere 550 G Bulldozer.

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: _____

VIDEO DOCUMENTATION: _____
 PHOTO DOCUMENTATION: _____

Todd Schara
 PROJECT INSPECTOR (PRINT)

Todd Schara
 PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT 2100 W. 1st St. Restoration DATE 9/22 1998
 WEATHER Cloudy & Cool TIME 1:10 TEMP 65 HIGH 140 LOW
 GENERAL INFORMATION: Wind NE at 5-10 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>SLP [unclear]</u>	OWNER REPR.		YES	()	NO () <u>8:00-6:30</u>
<u>Art [unclear]</u>	ARCH. REPR.		YES	()	NO () <u>7:00</u>
<u>Scott [unclear]</u>	GEN CONT. REPR		YES	()	NO () <u>7:00</u>
			YES	()	NO ()
			YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER (X) 2 SURVEYORS

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

1 operator in rubber tire loader picking up roots
1 operator in skid steer loader working
1 operator driving Terex front loader
1 operator in skid steer loader grading top and
1 operator in track loader w/ bucket digging shadow
1 operator above and off wall
1 operator working rough ties
1 operator scattering trucks
1 laborer/foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 8
 PHOTO DOCUMENTATION:

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW Water Ed Reservoir DATE 9/23 1998
 WEATHER Partly Cloudy & Cool TIME Avs TEMP 60 HIGH 45 LOW
 GENERAL INFORMATION: Wind West 5-8 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>SKW</u>	OWNER REPR.		YES	()	NO () 7:30-6:30
<u>Irish Pethy Bridge</u>	ARCH. REPR.		YES	()	NO () 7:05
<u>Sgt P. Fahl</u>	GEN CONT. REPR		YES	()	NO () 7:00
			YES	()	NO ()
			YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (5): OTHER (X) 2 Surveyors

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator on wide track dazer placing top soil in Basins 3, 4 & 5
- 1 operator in small dazer fine grading
- 1 operator in trackhoe w/ bucket excavating cut off wall trench
- 1 operator in trackhoe w/ buster breaking up slag in cut off wall trench
- 1 laborer washing track tires
- 1 laborer spotting trucks and picking roots
- 1 laborer/foreman directing work and operation / positioning pump to remove water from cut off wall

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Laborer/foreman was in modified level C protection while operating pump at cut off wall. Estimated time 1.5 hours

VIDEO DOCUMENTATION: Tape 9
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT _____
WEATHER Cloudy & Cool TIME 1:00 TEMP 60 DATE 9/24/98
GENERAL INFORMATION: Wind SW 5-10 mph HIGH 45 LOW _____

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	()	NO () 7:30-5:30
<u>Pat P</u>	ARCH. REPR.	_____	YES	()	NO () 7:00
<u>Sue H</u>	GEN CONT. REPR	_____	YES	()	NO () 7:00
_____	_____	_____	YES	()	NO ()
_____	_____	_____	YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER (X) 2 surveyors 2 hydroseed workers
QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator excavating trench for cut off wall & placing clay in cut off wall
- 1 operator compacting clay in cut off wall and driving backhoe collecting roots
- 1 operator grading top soil and substrate
- 1 operator helping hydroseed application
- 1 laborer helping with hydroseed application
- 1 laborer operating pump for cut off wall water removal 3 hrs
- 1 laborer picking roots
- 1 laborer / Foreman directing work floating

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Hydroseed covered area east of landfill, basin 2, 4 & 5

VIDEO DOCUMENTATION: Tape 10
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)


PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SK W Water Rd Recontouring DATE 9/26 1998
WEATHER Cloudy Light Drizzle TIME Five TEMP 75 HIGH 60 LOW _____
GENERAL INFORMATION: Wind SW 5-10 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skputton</u>	OWNER REPR.	_____	YES	()	NO () <u>7:00-4:30</u>
_____	ARCH. REPR.	_____	YES	()	NO ()
_____	GEN CONT. REPR	_____	YES	()	NO ()
_____	_____	_____	YES	()	NO ()
_____	_____	_____	YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:
OPERATORS (4): LABORERS (2): OTHER (1) 7:00-3:30
QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:
1 operator on rubber tired backhoe - completion test pits for SK.
1 operator on wide track dozer grading NE corner
1 operator on bented Samsung trackhoe loading excess material from NW area
1 operator on site dump truck transporting material from NW to NE
1 laborer doing grade stakes in NE
1 laborer/foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: _____

VIDEO DOCUMENTATION: Tape 10
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW W. Trer Rd Acacia Terrace DATE 9/28 1998
 WEATHER Clear Cool & Sunny TIME 1:00 TEMP 65 HIGH 55 LOW
 GENERAL INFORMATION: Wind NW 5 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Ito Han</u>	OWNER REPR.	_____	YES ()	NO ()	() 7:30 - 6:00
<u>Art Fethbridge</u>	ARCH. REPR.	_____	YES ()	NO ()	()
<u>Scott Pfluh</u>	GEN CONT. REPR	_____	YES ()	NO ()	() 7:00 - 10:30
_____	_____	_____	YES ()	NO ()	() 11:00 -
_____	_____	_____	YES ()	NO ()	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (4): OTHER (8) 2 surveyors 8:00

QUALITY OR WORKMANSHIP: _____

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator excavation cut off wall w/ Samsung trackhoe
- 1 operator in small dozer pushing clay into pile for cut off wall work, also help to compact w/ roller
- 1 operator in wide track dozer grading NW
- 1 operator in J. Deere 850C grading in NW
- 1 laborer working pump at cut off wall on level
- 1 laborer doing site work
- 1 laborer/fireman directing work

Note work on cut off wall ended at 10:00
 Then 1 operator in Samsung completed test pits for SKW from 10:00 - 5:00

Art P. walks off job at 10:00 and directors to shut job down (cut off wall)
PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: ~9:30-10:00 Work stopped because laborer claimed they should drive Terrex truck operator claimed they should. All work on cut-off wall stopped. Then operators & laborers went to work in other areas. I took one operator and Samsung trackhoe to do test-pits

VIDEO DOCUMENTATION: Tape 10
 PHOTO DOCUMENTATION: _____

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Witmer Rd Recontouring DATE 9/30 19 98
 WEATHER Cloudy & cool TIME Aug TEMP 65 HIGH 45 LOW
 GENERAL INFORMATION: Wind West 5-10 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>SKW Hutton</u>	OWNER REPR.	_____	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/> () 18:00
<u>Sept Holt</u>	ARCH. REPR.	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/> ()
_____	GEN CONT. REPR	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/> () 17:08
_____	_____	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/> ()
_____	_____	_____	YES <input type="checkbox"/>	NO <input type="checkbox"/> ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER 2 surveyors

QUALITY OR WORKMANSHIP: GOOD

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator grading/placing new top soil in Basin 3 w/ wide track dozer
- 1 operator in small dozer fine grading edge of basin 6 then also placing top soil in Basin 3
- 1 operator in skid steer loading out wood debris into Modern Disposal trucks. Wood debris will be taken to Modern landfill for disposal.
- 1 operator in smooth drum roller in NW area and knoll near basin 6 preparing subgrade for topsoil
- 1 laborer washing truck tires
- 1 laborer spotting trucks & doing grade stakes
- 1 laborer/foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Top soil from 3rd Grand Island source being delivered by Walk Trucking. New top soil placed in basin 3 and road south of basin 3

VIDEO DOCUMENTATION: Tape 3
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)


 PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Wilmer Rd Reconstruction DATE 10/1 1998
 WEATHER Windy & cool TIME After TEMP 55 HIGH 74 LOW
 GENERAL INFORMATION: Wind NW 10-20 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	()	NO () 8:00-6:00
<u>Scott P. Johnson</u>	ARCH. REPR.	_____	YES	()	NO ()
_____	GEN CONT. REPR	_____	YES	()	NO () 11:00-
_____	_____	_____	YES	()	NO ()
_____	_____	_____	YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER (x) 2 surveyors

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator excavating cut off wall A in Samsung track.
- 1 operator in J. Beer Dozer pushing clay into pile to assist cut off wall construction
- 1 operator in small dozer placing top soil & fine grading subgrade in mound near Stillberg
- 1 operator in wide track dozer placing top soil in mound near Stillberg and fine grading subgrade in NW area
- 1 laborer washing truck tires
- 1 laborer assisting with cut off wall and operating pump to remove water
- 1 laborer/fireman directing work

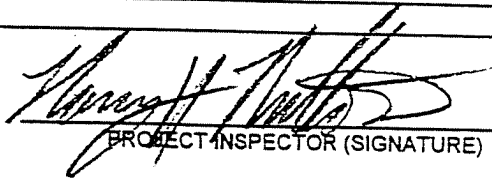
PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

1 dump truck and driver from Welk trucking assisting with cut off wall construction

VIDEO DOCUMENTATION: Tape 10

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)


PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Wilmerd Recontouring DATE 10/12 1998
WEATHER Cloud Cold & Wind TIME Am TEMP 55 HIGH 45 LOW _____
GENERAL INFORMATION: Wind 10-20 mph from NW

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>SKW Fulton</u>	OWNER REPR.	_____	YES ()	NO () 8:00-5:30
<u>Scott Pfuhl</u>	ARCH. REPR.	_____	YES ()	NO ()
<u>John Kuhn</u>	GEN CONT. REPR	_____	YES ()	NO () 7:00-5:30
<u>Art Reynolds</u>	_____	_____	YES ()	NO () 7:00-11:00
<u>Gary Cotton</u>	_____	_____	YES ()	NO () 7:00-11:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER (x) 2 Trucks & 2 Truck Drivers

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in Samsung backhoe excavating material from road near Arco gate. Excavate wet soil from Basin 6. Excavate soil stock piled on berm near south road by Basin 5.
- 1 operator in wide track dozer grading in Basin 6 and in NW basin
- 1 operator in small dozer grading Basin 5 and removing dark soil with fuel odor
- 1 operator in rubber tire backhoe loading/making soil. Smooth drum roller also used in Basin 6
- 1 laborer removing vegetation from fence line in southeast area
- 1 laborer assisting with grading and moving material
- 1 laborer/foreman directing work & sets drain pipe in NW

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Asked SLC to remove dark soil with fuel odor from east part of Basin 6

VIDEO DOCUMENTATION: Tape 11
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Wilmer Rd Recontouring DATE 10/2 1998
 WEATHER Cloud Cold & Wind TIME Am TEMP 55 HIGH 45 LOW _____
 GENERAL INFORMATION: Wind 10-20 mph from NW

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP		
			YES	NO	TIME
<u>Skp Hutton</u>	OWNER REPR.	_____	YES	()	NO () 8:00-5:00
<u>Scott Pohl</u>	ARCH. REPR.	_____	YES	()	NO ()
<u>John Kuhn</u>	GEN CONT. REPR	_____	YES	()	NO () 7:00-5:30
<u>Art Kohnsbrider</u>	_____	_____	YES	()	NO () 7:00-11:00
<u>Gary Cotton</u>	_____	_____	YES	()	NO () 7:30-11:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER (x) 2 Trucks & 2 Truck Drivers

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in Samsung backhoe excavating material
- " from road near Arco gate. Excavate wet soil
- from Basin 6. Excavate soil stock piled on
- perm near south road by Basin 5.
- 1 operator in wide track dozer grading in
- Basin 6 and in NW basin
- 1 operator in small dozer grading Basin 5 and
- removing dark soil with fuel odor
- 1 operator in rubber tire backhoe loading/mixing
- " soil. Smooth drum roller also used in
- Basin 6
- 1 laborer removing vegetation from fence line
- in southeast area
- 1 laborer assisting with grading and moving material
- 1 laborer/foreman directing work & sets drain pipe in NW

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Asked SLC to remove dark soil with fuel odor

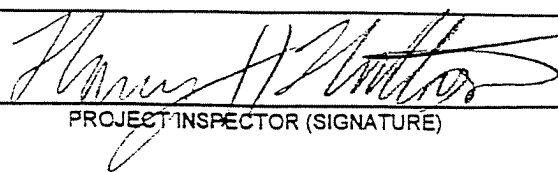
from east part of Basin 6

VIDEO DOCUMENTATION: Tape 11

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Winter Road Recontouring DATE 10/3 1998
WEATHER Cloudy & Cool & Still TIME Aug TEMP 55 HIGH 75 LOW _____
GENERAL INFORMATION: wind 0-5 mph variable

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.			
			YES	()	NO	()
<u>Skip Hutton</u>	OWNER REPR.	_____	YES	()	NO	()
_____	ARCH. REPR.	_____	YES	()	NO	()
_____	GEN CONT. REPR	_____	YES	()	NO	()
_____	_____	_____	YES	()	NO	()
_____	_____	_____	YES	()	NO	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER (x) 2 trucks & truck drivers

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

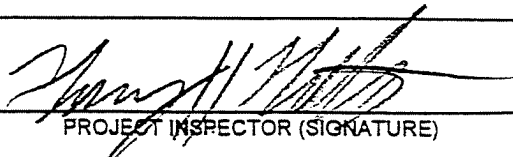
- 1 operator in the wide track dozer grading south berm
- 1 operator in large J Deere dozer doing same
- 1 operator in Samsung tractor loading stockpile material from NW
- 1 operator in small dozer grading stone on access road near bath house
- 1 laborer cutting vegetation from south fence
- 1 laborer doing grade stakes
- 1 laborer / Foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 11
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW DATE 10/5 1998
WEATHER Clear Cold Sunny TIME Aug. TEMP 60 HIGH 40 LOW _____
GENERAL INFORMATION: Wind NE 5-10mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Tutton</u>	OWNER REPR.	_____	YES ()	NO () 8:00-5:30
<u>Scott Pfahl</u>	ARCH. REPR.	_____	YES ()	NO ()
<u>John Kuhn</u>	GEN CONT. REPR	_____	YES ()	NO () 7:00-?
<u>Loren Glaser</u>	_____	_____	YES ()	NO () 10:30-1:00
			YES ()	NO () 10:30-11:45

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER (x) 2 surveyors

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in Samsun Tractor excavating in area north of access road near Area
- 1 operator in wide track dozer grading north of access road
- 1 operator in small dozer grading north of access road
- 1 operator in rubber tired backhoe moving material and cleaning debris from subgrade
- 1 laborer picking debris from subgrade
- 1 laborer picking debris from subgrade
- 1 laborer/foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 11
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)



LAN Associates, Inc.

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INSPECTION REPORT

PROJECT 5-W Wilmer L Remington DATE 10/6 1998
 WEATHER Clear sunny & cool TIME 1:00 TEMP 165 HIGH 145 LOW 145
 GENERAL INFORMATION: Wind NE 5-10 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Miller</u>	OWNER REPR.	_____	YES ()	NO () 8:00-5:00
_____	ARCH. REPR.	_____	YES ()	NO ()
<u>Scott Kahl</u>	GEN CONT. REPR	_____	YES ()	NO () 7:00
_____	_____	_____	YES ()	NO ()
_____	_____	_____	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER (1) 2 surveyors 1 site truck & trucks
 QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in Samsung loading material from south berm
- 1 operator in small drum roller rolling basin 5
- 1 operator in wide track dozer placing top soil in basin 5
- 1 operator in small dozer grading subgrade on berm/spillway south of basin 5
- 1 laborer washing truck tires
- 1 laborer spotting trucks
- 1 laborer / fireman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Samsung removed from site

VIDEO DOCUMENTATION: Tape 11
 PHOTO DOCUMENTATION: _____

 PROJECT INSPECTOR (PRINT) Scott Kahl
PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SEW W. Home Ed Recontouring DATE 10/7 1998
WEATHER cloudy TIME Am TEMP 70 HIGH 55 LOW

GENERAL INFORMATION: Wind South 10-15 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hunter</u>	OWNER REPR.	_____	YES ()	NO ()	<u>7:30 - 5:30</u>
_____	ARCH REPR.	_____	YES ()	NO ()	
<u>Scott Kelly</u>	GEN CONT. REPR	_____	YES ()	NO ()	<u>7:05</u>
_____	_____	_____	YES ()	NO ()	
_____	_____	_____	YES ()	NO ()	

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER ()

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator grading subgrade north of access road in wide track of 2'
- 1 operator grading subgrade on berm north of access road in small area
- 1 operator in rubber tire backhoe moving excess material out of area north of access road and placing it on western part of road
- 1 laborer cutting steel north of access road
- 1 laborer hand picking debris in same area
- 1 laborer/foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

part of six foot section of cut off wall A found to be incomplete so 40' of six foot section was completed
Clay being delivered to six was wet gumbo clay that was rejected for cut off wall by operator

VIDEO DOCUMENTATION: app 12
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)

[Signature]
PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Winner Rd Resurfacing DATE 10/8/98
WEATHER Cloudy & Cool TIME Am TEMP 65 HIGH 75 LOW
GENERAL INFORMATION: Wind NW 5-10mph Heavy Rain Overnight

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Slip Button</u>	OWNER REPR.		YES	()	NO ()
	ARCH. REPR.		YES	()	NO ()
	GEN CONT. REPR		YES	()	NO ()
			YES	()	NO ()
			YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: Site is very wet from overnight rain. Small crew kept onsite to pump rain water
OPERATORS (1): LABORERS (2): OTHER (1)
QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:
1 operator in rubber tired backhoe moving material & cutting drainage ditches
1 laborer working pump section line and discharge line
1 laborer/foreman directing & assisting in work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:
pH of discharge water from Basin 6 is 9.5
Analytic results for petroleum Odor Soil TCLP Benzene ND
Flush Point >200'

VIDEO DOCUMENTATION: Tape 12
PHOTO DOCUMENTATION:

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Water Ltd Recombining DATE 10/9 19 98
WEATHER cloudy & cool TIME PM TEMP 58 HIGH 74 LOW
GENERAL INFORMATION: Windy North 5-10mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.			
<u>Skylar Hutton</u>	OWNER REPR.	_____	YES	()	NO	() 8:00-4:30
<u>Scott Pfahl</u>	ARCH. REPR.	_____	YES	()	NO	()
<u>John Kuhn</u>	GEN CONT. REPR	_____	YES	()	NO	() 7:00-?
_____	_____	_____	YES	()	NO	() 8:30-10:30
_____	_____	_____	YES	()	NO	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT: site is still very wet from rain on Wednesday night.

OPERATORS (2): LABORERS (2): OTHER (X) 2 surveyors

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:
1 operator in wide track dozer grading in NW area
1 operator in trackhoe excavating material from NW and NE area. Also in trackhoe moving material
1 laborer operation pump and picking up debris
1 laborer / firmen / direction work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: _____

VIDEO DOCUMENTATION: Type 12
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Wimer Rd Recontouring DATE 10/12 1998
WEATHER Clear Sunny & mild TIME 11:00 TEMP 65 HIGH 45 LOW 45
GENERAL INFORMATION: wind E 5 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Hutton</u>	OWNER REPR.	_____	YES ()	NO () 7:30-8:00
<u>Scott (Foh)</u>	ARCH. REPR.	_____	YES ()	NO ()
<u>Art Bethel</u>	GEN CONT. REPR.	_____	YES ()	NO () 7:00-10:00
_____	_____	_____	YES ()	NO () 12-7
_____	_____	_____	YES ()	NO () 4-5:30

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER 2 surveyors 8-12

QUALITY OR WORKMANSHIP: Fair to Poor

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in wide track loader placing clay in area south of basin 2 Also using compactor
- 1 operator in small loader placing clay in area south of basin 2 Also using vibrator/put flat compactor
- 1 operator excavating cut off wall A in trackhoe
- 1 operator compaction cut off wall A in trackhoe
- 1 laborer wash track tires
- 1 laborer - setting tracks
- 1 laborer/trackman directing track & clearing grass

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: 5 trucks of clay rejected large portion of 2nd clay lift failed moisture & density part of 2nd lift placed on top of dry first lift

VIDEO DOCUMENTATION: Tape 13
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW W & rer Rd. Recontouring DATE 10/13 1998
WEATHER Cloudy TIME 5:00 TEMP 65 HIGH 74 LOW 50
GENERAL INFORMATION: Wind West

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>SKW Patton</u>	OWNER REPR.	_____	YES ()	NO () 7:30-6:30
<u>Scott Brown</u>	ARCH. REPR.	_____	YES ()	NO ()
<u>Art Polvorogio</u>	GEN CONT. REPR	_____	YES ()	NO () 7:00-6:00
_____	_____	_____	YES ()	NO () 2:00-6:00
_____	_____	_____	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER ()

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator placing clay in south part of basin 2 and on east part of south access road on wide track dozer
- 1 operator placing clay in south part of basin 2 and on east part of south access road on small dozer. Also constructing with vibratory pad foot roller and smooth drum roller
- 1 operator in trackhoe excavating cut off wall A
- 1 operator in trackhoe w/ compactor compacting wall A
- 1 laborer spotting tracks
- 1 laborer washing track tires
- 1 laborer / foreman directing work & doing grade stakes

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Completed cut off wall A at about 5:00pm

VIDEO DOCUMENTATION: Tape 13
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)


PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW Witmer Rd Recontouring DATE 10/14 1998
WEATHER Cold & Light showers TIME Avs TEMP 55 HIGH 75 LOW
GENERAL INFORMATION: Wind west 10-15 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Hutton</u>	OWNER REPR.	<u></u>	YES ()	NO () 8:00-5:30
<u>Art Pethybridge</u>	ARCH. REPR.	<u></u>	YES ()	NO ()
<u></u>	GEN CONT. REPR	<u></u>	YES ()	NO () 9:30-11:00
<u></u>	<u></u>	<u></u>	YES ()	NO ()
<u></u>	<u></u>	<u></u>	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER (X) (site dump truck & driver) 7:30-3:30
QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator grading subgrade on berm and access road in wide track dozer
- 1 operator grading subgrade on berm and access road on small dozer
- 1 operator in tractor loading material off of berm
- 1 truck driver moving material to west end of access road
- 1 operator in rubber tire moving slug from NW area to south access road
- 1 laborer doing grade stakes
- 1 laborer clearing large blocky material from edge of south fence
- 1 laborer/foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Taple 13
PHOTO DOCUMENTATION:

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW W. Hwy Rd Recontouring DATE 10/15 1998
 WEATHER cool & cloudy TIME Am TEMP 60 HIGH 45 LOW
 GENERAL INFORMATION: wind West 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>SKW Patton</u>	OWNER REPR.	_____	YES	()	NO () 8:30-5
<u>Scott Stahl</u>	ARCH. REPR.	_____	YES	()	NO ()
_____	GEN CONT. REPR	_____	YES	()	NO () 7:00-
_____	_____	_____	YES	()	NO ()
_____	_____	_____	YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS 3: LABORERS 3: OTHER ()

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in wide track loader clearing in main north of berm
- 1 operator in small loader doing same on access road
- 1 operator on microtunneling and front & smooth drum roller completing strip
- 1 loader spreading trucks
- 1 loader backfilling track trees
- 1 laborer/foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: _____

VIDEO DOCUMENTATION: TAPE 13
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

66 Cuna Street • St. Augustine, FL 32084 • (904) 824-6999

INSPECTION REPORT

PROJECT SKW W. - merged Leasburn DATE 10/12/98
WEATHER Cool & Sunny TIME Aug 1 TEMP 70 HIGH 45 LOW
GENERAL INFORMATION: wind south 5mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skip Hutton</u>	OWNER REPR.		YES ()	NO () 7:30-5
	ARCH. REPR.		YES ()	NO ()
<u>Art Kethbridge</u>	GEN CONT. REPR		YES ()	NO () 8:00-
<u>Scott Kishi</u>			YES ()	NO () 7:00-
<u>John Kuhn</u>			YES ()	NO () 8:00-10:30
<u>Mike Hinton</u>			YES ()	NO () 8:30-10

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (4): LABORERS (3): OTHER (X) 2 Surveyors 1 truck & driver

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in truckhoe & dozer loading out material from DW area
- 1 operator in wide track dozer placing clay n. of road.
- 1 operator in small dozer placing clay on access
- 1 operator in pad foot vibratory compactor compacting lifts
- 1 laborer softening trucks
- 1 laborer washing truck tires
- 1 laborer / foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 13
PHOTO DOCUMENTATION:

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

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INSPECTION REPORT

PROJECT SKW 1/1 Jones Rd Redbank DATE 10/17/98
 WEATHER cloudy cool TIME 4:15 TEMP 60 HIGH 45 LOW
 GENERAL INFORMATION: Wind SE 5mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Scott Martin</u>	OWNER REPR.		YES ()	NO ()	() 8:30-5:15
	ARCH. REPR.		YES ()	NO ()	()
	GEN CONT. REPR		YES ()	NO ()	()
<u>DD Service</u>			YES ()	NO ()	()
			YES ()	NO ()	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (3): OTHER (1) 2 Supervisors 100-?

QUALITY OF WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

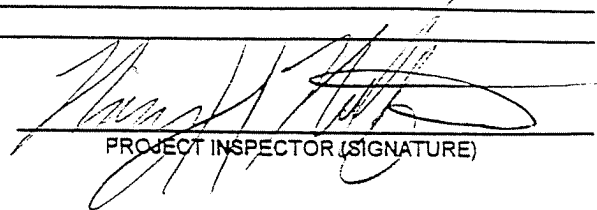
- 1 operator on wide track placing clay lifts in south-west side of house 2 & 3 on a main road
- 1 operator on small patch doing same
- 1 operator on dirt road for roller working in same area
- 1 lumber carting trucks and adding water from truck under foundation - some tires
- 1 logger / foreman directing work doing grade stakes

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Find out what is in 3:30 PM. To need to be fine needed and critical to server before too soil can be placed.

VIDEO DOCUMENTATION: Tape 13
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)



PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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Mandy

INSPECTION REPORT

PROJECT 56W W. 1st St. Lot 1700 DATE 3/19 1998
WEATHER in cloud TIME 1:00 TEMP 60 HIGH 70 LOW 50

GENERAL INFORMATION: Windy west 5-15 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
_____	OWNER REPR.	_____	YES ()	NO ()
_____	ARCH. REPR.	_____	YES ()	NO ()
_____	GEN CONT. REPR	_____	YES ()	NO ()
_____	_____	_____	YES ()	NO ()
_____	_____	_____	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (0): OTHER (1) Surveyors

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

1 operator placed thin 1-3" tooth bit on
ground surface to determine ground level for
excavation. The ground level was found to be
approximately 1 foot below the existing
ground level. The operator then placed
the bit on the ground level and marked the
location of the excavation. The operator
then placed the bit on the ground level and
marked the location of the excavation.

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Second survey to be done in this area
to find all work to be done based
on preliminary survey. Time 1:30

VIDEO DOCUMENTATION: None

PHOTO DOCUMENTATION: 1

PROJECT INSPECTOR (PRINT)

[Signature]
PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SK 111 W/ Amerl (see sketch) 11/1/98 DATE 1/21 19 98
WEATHER Good & breezy TIME AVA TEMP 60 HIGH 45 LOW _____
GENERAL INFORMATION: Wind West 10-15 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Scott Hahn</u>	OWNER REPR.	_____	YES ()	NO () 7:00-5:30
_____	ARCH. REPR.	_____	YES ()	NO ()
<u>Scott Hahn</u>	GEN CONT. REPR.	_____	YES ()	NO () 7:00-
<u>RD Ketchum</u>	_____	_____	YES ()	NO () 10:00-12:30
_____	_____	_____	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (3): OTHER (2) Truck & 1 Truck driver

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator on JD850 & small JD550 cutting/grading NE basin
- 1 operator in tractor moving soil fill from NE basin
- 1 operator in wide track dozer pushing top soil over clay pit in & over dune in basin 2
- 1 laborer spot - no - cracks
- 1 laborer - measuring truck tires
- 1 laborer/foreman directing work / grade stakes

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape # 13
PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) [Signature]

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW Wytner Rd Recontouring DATE 10/21 1998
 WEATHER Cloudy Cold Some Drizzle TIME Ave TEMP 47 HIGH 49 LOW _____
 GENERAL INFORMATION: Wind NW 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Skip Hutton</u>	OWNER REPR.	_____	YES ()	NO ()	() 8:00 - 10:30
<u>Scott Pfahler</u>	ARCH. REPR.	_____	YES ()	NO ()	()
<u>Art Kethybridge</u>	GEN CONT. REPR.	_____	YES ()	NO ()	()
_____	_____	_____	YES ()	NO ()	()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (3): OTHER (X) 2 Surveyors 12:30 - 4:30

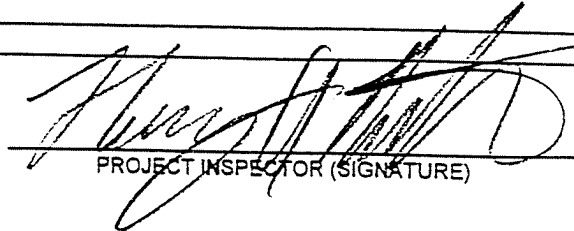
QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

1 operator on JD 850 and JD 550 placing top soil in area 2 north of access road
 1 operator on wide track dozer placing top soil in NW area
 1 operator on rubber tired backhoe picking up wood roots, brick & rock debris from top soil
 1 laborer spotting track & picking up debris
 1 laborer washing truck tires and cutting tall grass and picking up debris
 foreman directing work and doing grade stakes

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 14
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____ PROJECT INSPECTOR (SIGNATURE) 

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW W/Zone Rd DATE 10/22 1995
 WEATHER Cold & Cloudy TIME Any TEMP 58 HIGH 140 LOW
 GENERAL INFORMATION: Work NW 10-15

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>Step Hutton</u>	OWNER REPR.	_____	YES ()	NO ()	<u>8:00-7:30</u>
<u>Scott Kahl</u>	ARCH. REPR.	_____	YES ()	NO ()	<u></u>
_____	GEN CONT. REPR	_____	YES ()	NO ()	<u>7:30 -</u>
_____	_____	_____	YES ()	NO ()	<u></u>
_____	_____	_____	YES ()	NO ()	<u></u>

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS LABORERS OTHER

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

1 operator in wide front loader around 1/2 acre
 on south access road. Also graded subgrade
 and tracked in top soil.
 1 operator on smaller JD 550 and JD 850
 grading subgrade in NE NW and south
 access road (west end).
 1 operator in roller treading machine
 across material from NE to NW. Also
 on south drive roller over a subgrade.
 1 laborer taking soil test and processing
 1 laborer making log rock test material.
 1 laborer/foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: Tape 141
 PHOTO DOCUMENTATION: 1

PROJECT INSPECTOR (PRINT)

PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW Wilmer Rd Recontouring DATE 10/23 1998
 WEATHER Sunny & Mild TIME Aug TEMP 65 HIGH 45 LOW _____
 GENERAL INFORMATION: Wind West 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
<u>Skir Hutton</u>	OWNER REPR.	_____	YES ()	NO () 8:00 - 6:00
<u>Suzanne Pohl</u>	ARCH. REPR.	_____	YES ()	NO () 7:00 -
<u>John Kuhn</u>	GEN CONT. REPR	_____	YES ()	NO () 8:00 - 11:00
<u>Art Petrucci</u>	_____	_____	YES ()	NO () 8:00 - 11:00
<u>Todd Schryer</u>	<u>GZA</u>	_____	YES ()	NO () 1:00 - 4:00
<u>Don Kuhn</u>	_____	_____	YES ()	NO () 2:00 - 7:00

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (3): OTHER ()

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator grading top soil in wide track in NE area
- 1 operator grading top soil in small dicer in NE area
- 1 operator in rubber tire backhoe picking up rocks, etc.
- 1 laborer spading trucks
- 1 laborer washing truck tires
- 1 laborer/freeman directing work doing grade stakes

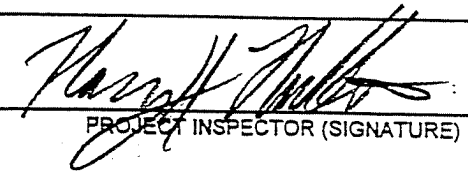
After top soil was cut off by Walk Trucking operators and laborers kept busy with little projects on subgrade, store for access road and fine grading/soaking top soil.

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: Topl brought on-site from 7:00-9:30.

GZA Resampled Shelby tube collect from location of failed area in Cut Off Wall B. SLC (Art) directed operator in rubber tired back where to excavate and where to sample

VIDEO DOCUMENTATION: Take 14
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)


 PROJECT INSPECTOR (SIGNATURE)

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INSPECTION REPORT

PROJECT SKW Witmer Rd Recontouring DATE 10/26 1998
 WEATHER _____ TIME _____ TEMP _____ HIGH _____ LOW _____

GENERAL INFORMATION:

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP		
<u>SKIP HUTTON</u>	OWNER REPR.	_____	YES	()	NO () 7:00 - 5:30
<u>Scott Pohl</u>	ARCH. REPR.	_____	YES	()	NO () 7:05 - 5:00
<u>Art Petrucci</u>	GEN CONT. REPR	_____	YES	()	NO () 8:00 - 5:00
<u>John Kuhn</u>	_____	_____	YES	()	NO () 8:00 - 12:00
_____	_____	_____	YES	()	NO () _____

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (3): OTHER (1)

QUALITY OR WORKMANSHIP: Good

No top soil brought on site

PROGRESS OF WORK AND WORK BEING PERFORMED: Good

1 operator in wide track dozer trucking in top soil on north edge of eastern ramp leading up to landfill

1 operator in small dozer grading soil in NE part of basin b. Also used trackhoe to excavate clay for resampling of cut off wall A

1 operator in rubber-tire backhoe picking roots grass mat out from NW area

2 laborer picking out roots & grass mat from NW area

1 laborer / foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN: GZA (Tom) was on site

to resample failed area from cut off wall A. Tom collected sample and took moisture density measurements and observed placement / recompaction of clay in wall & cover

VIDEO DOCUMENTATION: Tape 14

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)


PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT SKW Wimmer Rd Recortourm DATE 10/27 1998
 WEATHER Clear Sunny Mild TIME Avy TEMP 65 HIGH 45 LOW
 GENERAL INFORMATION: wind SW 5-10

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.		
<u>SKW Hutton</u>	OWNER REPR.	_____	YES	()	NO () <u>7:00</u>
<u>Scott Kehl</u>	ARCH. REPR.	_____	YES	()	NO () <u>7:00</u>
<u>Art Kethybridge</u>	GEN CONT. REPR	_____	YES	()	NO () <u>9:00</u>
_____	_____	_____	YES	()	NO ()
_____	_____	_____	YES	()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS (3): LABORERS (3): OTHER ()

QUALITY OR WORKMANSHIP: Good

No top soil in am. SLC trailer broken into overnight
tools set were stolen

PROGRESS OF WORK AND WORK BEING PERFORMED:

1 operator in wide track dozer regrading NW area
by tracking in top soil (but problem w/ grass mats)
1 operator in small dozer doing the same
1 operator in rubber tire backhoe picking up roots set
1 laborer raking tracked up area in basin 6'
1 laborer raking roots + grass mats in NW area
1 laborer/foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

VIDEO DOCUMENTATION: TAPE 14
 PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT)



PROJECT INSPECTOR (SIGNATURE)

LAN Associates, Inc.

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INSPECTION REPORT

PROJECT _____ DATE 7/31/98
 WEATHER Clear sunny 10-14 TIME 1:15 TEMP 85 HIGH 90 LOW 75
 GENERAL INFORMATION: Wind SW 5-10 mph

NAME	TITLE	CONTACTED AT	PRESENT DURING INSP.	
_____	OWNER REPR.	_____	YES ()	NO ()
_____	ARCH. REPR.	_____	YES ()	NO ()
_____	GEN CONT. REPR	_____	YES ()	NO ()
_____	_____	_____	YES ()	NO ()
_____	_____	_____	YES ()	NO ()

APPROXIMATE NUMBER OF CRAFTSMAN ON PROJECT:

OPERATORS LABORERS OTHER 2 supervisors

QUALITY OR WORKMANSHIP: Good

PROGRESS OF WORK AND WORK BEING PERFORMED:

- 1 operator in wide track plowing top soil
- in NW area and north of stub access road
- 1 operator in small dozer plowing top soil
- in SW area edge of Basin 6 and north
- of south access road
- 1 operator in smooth drum rolling subgrade
- and in backhoe picking up debris from
- using "bird dozer" rented from Barringer
- 1 laborer mowing truck tires
- 1 laborer spot - marks
- 1 laborer foreman directing work

PROBLEM AREAS & SPECIAL INSTRUCTIONS GIVEN:

Basin 6 top soil
needed to be regarded as still/water
above discharge pipe and at discharge
from Basin 4

VIDEO DOCUMENTATION: _____

PHOTO DOCUMENTATION: _____

PROJECT INSPECTOR (PRINT) _____

PROJECT INSPECTOR (SIGNATURE) _____