932001

SKW ALLOYS INC.
#932001
Survey Control Report

New York State Department of Environmental Conservation

SUPERFUND STANDBY CONTRACT
Task Order Memorandum 'C'

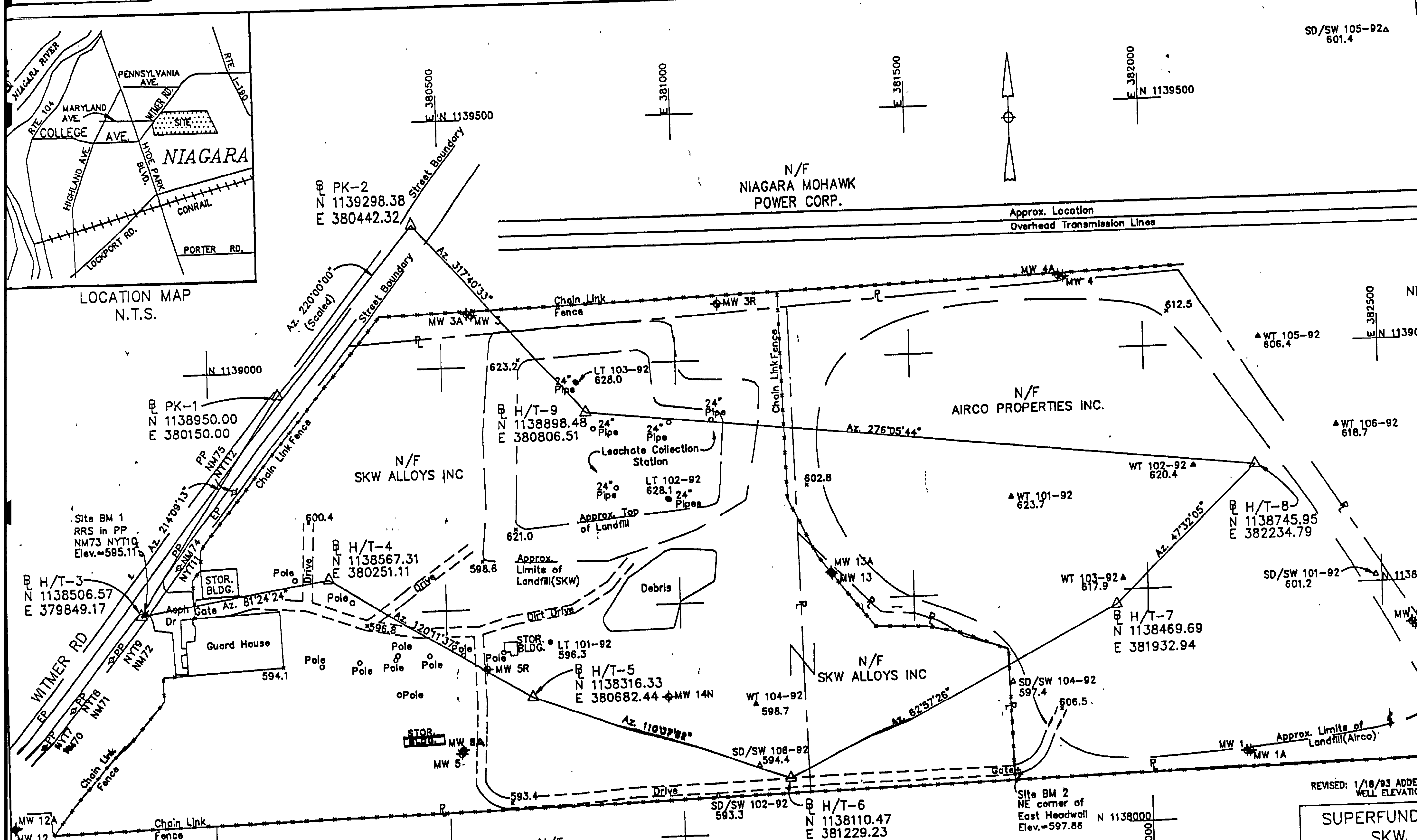
PRELIMINARY SITE ASSESSMENT NO. 6

SKW ALLOYS, INC.

CONTROL REPORT

DECEMBER 1992

OM P. POPLI, P.E.
Consulting Engineers & Land Surveyors
44 Saginaw Drive
Rochester, NY 14623
(716) 442-6940


SCALE
LOCATION MAP
N.T.S.
NIAGARA RIVER
RTE. 104
COLLEGE AVE.
MARYLAND AVE.
PENNSYLVANIA AVE.
WITMER RD.
SITE
NIAGARA
HIGHLAND AVE.
HYDE PARK BLVD.
CONRAIL
LOCKPORT RD.
PORTER RD.
RTE. I-190
N/F
NIAGARA MOHAWK
POWER CORP.
Approx. Location
Overhead Transmission Lines
N/F
AIRCO PROPERTIES INC.
N/F
SKW ALLOYS INC
Street Boundary
Chain Link Fence
WITMER RD
PK-2
N 1139298.38
E 380442.32
PK-1
N 1138950.00
E 380150.00
H/T-3
N 1138506.57
E 379849.17
H/T-4
N 1138567.31
E 380251.11
H/T-5
N 1138316.33
E 380682.44
H/T-6
N 1138110.47
E 381229.23
H/T-7
N 1138469.69
E 381932.94
H/T-8
N 1138745.95
E 382234.79
H/T-9
N 1138898.48
E 380806.51
Site BM 1
RRS in PP
NM73 NYT10
Elev.=595.11
Site BM 2
NE corner of
East Headwall
Elev.=597.86
Guard House
STOR. BLDG.
Leachate Collection Station
Approx. Top of Landfill
Approx. Limits of Landfill(SKW)
Approx. Limits of Landfill(Airco)
Debris
Dirt Drive
Drive
Gate
LT 101-92 596.3
LT 102-92 628.1
LT 103-92 628.0
WT 101-92 623.7
WT 102-92 620.4
WT 103-92 617.9
WT 104-92 598.7
WT 105-92 606.4
WT 106-92 618.7
WT 107-92 615.0
SD/SW 101-92 601.2
SD/SW 102-92 593.3
SD/SW 103-92 598.1
SD/SW 104-92 597.4
SD/SW 105-92 601.4
SD/SW 106-92 594.4
MW 1
MW 1A
MW 2
MW 2A
MW 3
MW 3A
MW 3R
MW 4
MW 4A
MW 5
MW 5R
MW 8A
MW 12
MW 12A
MW 13
MW 13A
MW 14N
Az. 317°40'33"
Az. 220°00'00" (Scaled)
Az. 214°09'13"
Az. 81°24'24"
Az. 120°11'37"
Az. 276°05'44"
Az. 47°32'05"
Az. 62°57'26"
N 1139500
N 1139000
N 1138500
N 1138000
E 380000
E 380500
E 381000
E 381500
E 382000
E 382500

WELL ELEVATION TAB			
WELL	GRND.	CASE	
MW-1	600.1	604.05	
MW-1A	598.9	604.58	
MW-4	609.6	611.67	
MW-4A	609.2	611.63	
MW-14N	596.5	599.07	
*MW-5A	596.3	599.04	
*MW-5	596.0	598.45	
MW-12A	592.0	594.73	
MW-12	592.0	594.65	

* SEE NOTE 5

REVISED: 1/18/93 ADDED MW 12&12a, SAMPLES WT 106&108 & S
WELL ELEVATION TABLE

SUPERFUND STANDBY CONTRAC
SKW, ALLOYS, SITE NO. 2
NIAGARA, N.Y.

New York State Department
of Environmental Conservatio

Prepared for: E.C. Jordon Co. 261 Commercial Street Portland, Maine 04112			Prepared by: OM P. POPLI, P.E.,L 44 Saginaw Drive Rochester, New Yor Tel. No. 716-442-
DATE 12/92	SCALE 1"= 200'	SHEET 1	

LEGEND

- △ SURFACE WATER/ SEDIMENT SAMPLE
- ● LEACHATE COLLECTION SAMPLE
- ▲ WASTE PILE SAMPLE
- ⌖ MONITORING WELL
- CHAIN LINK FENCE OR GATE
- △ SURVEY BASELINE POINT
- × SPOT ELEVATION

SURVEY NOTES

1.) ALL LOCATIONS SHOWN ON THIS MAP ARE BASED ON A SCALED COORDINATE SYSTEM FROM THE U.S.G.S. QUADRANGLE LEWISTON.

2.) ALL ELEVATIONS SHOWN ON THIS MAP ARE BASED ON AN ASSUMED ELEVATION OF 610', SCALED FROM THE U.S.G.S. QUADRANGLE LEWISTON.

3.) ALL PROPERTY LINE AND R.O.W. INFORMATION SHOWN ON THIS MAP WAS DETERMINDED BY CURRENT TAX MAP INFORMATION ONLY.

4.) DRAINAGE DITCH AND POND WERE NOT LOCATED DUE TO SNOW.

5.) WELL IDENTIFICATIONS FOR MW 5 AND MW 5A WERE NOT LABELED.

I. INTRODUCTION

The purpose of the survey described herein was to establish the necessary horizontal and vertical locations to provide a map of the site. The work described completes Tasks 3 and 4 of the scope of services for Task Order Memorandum C, Preliminary Site Assessment 6.

The work to satisfy Task Order Memorandum C was completed in November 1992 by Om P. Popli, P. E., L.S., P.C. by Mr. Kevin Ryan, Party Chief.

SCOPE OF SERVICES

TASK ORDER MEMORANDUM C

SURVEYING AND MAPPING FOR
PRELIMINARY SITE ASSESSMENT NO. 6.1
14 SITES

The services to be provided under Task Order Memorandum C shall be performed in accordance with the terms and conditions of the Task Order Agreement between OM POPLI Associates Incorporated (POPLI) and E.C. Jordan Co. (JORDAN) dated May 5, 1991.

PROJECT SUMMARY

JORDAN under contract to the New York State Department of Environmental Conservation (NYSDEC) is performing Preliminary Site Assessments (PSA) of 14 suspected inactive hazardous waste sites in the State of New York. The purpose of the investigation is to confirm or deny the presence of hazardous waste disposal on-site and determine if a significant threat exists to public health and the environment. Task 1 activities include a data and records search and a site walkover. Task 2 involves the preparation of Work Plans for additional site investigations. Tasks 3 and 4 include initial environmental sampling and subsurface investigations, respectively.

Task 1 activities for the work assignment have been completed and JORDAN is developing the Task A Project Management Work Plan. As part of Tasks 3 and 4 the services of a licensed land surveyor are required to map each site, and locate sampling locations, and other key locations as identified by JORDAN.

SCOPE OF SERVICES

POPLI shall provide all necessary personnel, equipment, and materials to perform the following Scope of Services in accordance with the Standard Specification described in Attachment A and the Survey Services Rate Schedule provided as Attachment C.

POPLI will provide a map showing locations and elevations for each boring, monitoring well, sampling location, and other key points as determined by JORDAN for the following sites:

	SITE NAME	TOWN	COUNTY
1.	Tifft and Hopkins	Buffalo	Erie
2.	SKW Alloy	Niagara	Niagara
3.	Great Lakes Carbon	Niagara Falls	Niagara
4.	Guterl Specialty Steel Corp.	Lockport	Niagara
5.	GCL Tie & Treating	Sidney	Delaware
6.	Oughterson Site	Veteran	Chemung
7.	Dresser Industries	Depew	Erie
8.	Stocks Pond	Depew	Erie
9.	Central Auto Wrecking	Lackawanna	Erie
10.	Clinton-Bailey	Buffalo	Erie
11.	LSB Warehouse	Hamburg	Erie
12.	Sleepy Hollow Campground	Newstead	Erie
13.	Witmer Road Site	Niagara	Niagara
14.	Stauffer Chemical Co.	Lewiston	Niagara

The location map and site sketch for each site is given in Attachment B. For each site POPLI will provide all necessary personnel, equipment, and material to perform the following services in the described manner during the conduct of the survey work:

1. Prepare a map showing property and site boundaries, developed through the use of current tax maps. The name of current property owners are to be shown on the map. In addition the map shall contain north arrow, scale, a legend that shows designations (wells, borings, sample locations, etc.) and a title block containing the official site name and site number.

2. Locate and indicate specific features of the site, such as the location and extent of filled areas, buried tanks, waste piles, buildings, etc. as determined by JORDAN on the map.

3. Establish vertical control at all monitoring wells, borings, sample locations, and corners of buildings as determined by JORDAN and indicate on map.

4. Establish horizontal control at all monitoring wells, borings, sample locations, corners of buildings, and other points as determined by JORDAN and indicate on map.

5. Mobilize and demobilize all necessary survey equipment and personnel to complete the horizontal location and vertical elevation survey within the project schedule.

6. Establish appropriate horizontal and vertical control at the site (i.e., locating existing benchmarks, etc. Refer to the specification, Attachment A for appropriate control).

7. Provide a final bound report for each site summarizing coordinates of all surveyed locations, and ground elevations, together with any comments pertinent to each location. Sampling locations shall be referenced by their proper NYSDEC identification numbers. This report shall also contain photocopies of all field notes and calculations as an appendix. The report shall describe procedures, traverses, and closures, and will note any significant observations relative to the survey. The final report shall be complete and accurate and shall not contain any errors. Any errors or omissions by POPLI shall be corrected by POPLI at no cost to JORDAN within two weeks of notice of errors/omissions, so as not to jeopardize the overall project schedule. The final report shall be signed by a surveyor licensed in the State of New York.

8. Supply POPLI's personnel with all necessary equipment and clothing including, but not limited to, hardhats and safety glasses and other items in addition to those normally utilized by POPLI at a nonhazardous site.

9. Maintain good relations with NYSDEC, the local community, and associated agencies and land owners. POPLI field personnel employed on the project should be made thoroughly cognizant of the importance of this aspect of the work and its sensitivity to the entire program.

10. Provide all necessary measures for securing POPLI's equipment during the conduct of the work.

11. Conduct all field activities in an efficient and professional manner with minimum impact to the site environment. Tree and brush removal and other activities which impact the existing site environment shall not be undertaken without prior approval by JORDAN.

12. Provide social security numbers of all personnel working on PSA.

13. Attend a health and safety briefing during the Task 2 walkover.

14. Attend a site visit/information meeting with JORDAN and the NYSDEC prior to the start of the survey activities at each of the 14 sites. Include this as a separate bid item identified as Task 2.

The methods, procedures and techniques to be used by POPLI are the responsibility of POPLI, and shall be designed to meet the intent of the specifications in Attachment A, appended hereto and incorporated by this Task Order Memorandum. Should the technical specifications conflict in any manner with the scope of services, the provisions of the scope of services shall govern.

Specific requirements for each site are as follows:

1. Tifft & Hopkins:

- Task 2: Attend the site/information meeting with Jordan and NYSDEC prior to the start of the field activities.

- Task 3: Map the 2.6-acre site at 666 Tifft Street, Buffalo, New York. Indicate the location of main building and fuel pumps, site fence and access gate. Horizontal and vertical control to be established at the following points during Task 3:

  -- Main building (horizontal control)
  -- Four fence corners (4)
  -- Two fuel pumps (2)
  -- Four test pit locations
  -- Four spot elevations on-site to be determined by JORDAN Field Representative

  Summarize the results of Task 3 survey and present in report to Jordan.

- Task 4: Remobilize to the site and establish horizontal and vertical control at 3 monitoring wells. Include the ground surface elevation, top of protective casing and top of well PVC riser. Plot locations on the site map and submit summary report to Jordan.

2. SKW Alloys, Inc.:

- Task 2: Attend the site/information meeting with Jordan and NYSDEC prior to the start of the field activities.

- Task 3: Map the 62+ acre site located off Witmer Road in the Town of Niagara, New York indicating locations of the Guard House and storage buildings, approximate locations of the SKW and Airco landfills, intermittent drainage stream and pond, fence line, and the Niagara Mohawk Power lines. Horizontal and vertical control to be established at the following points during Task 3:

  -- Fence line
  -- Access road
  -- Guard house
  -- Storage buildings
  -- SKW Allow Inc. landfill
  -- Airco Properties, Inc. landfill
  -- Exposed waste piles, 4 sample locations
  -- Three surface soil locations

- -- Leachate collection station
- -- Surface water sampling locations, 1 in stream
  1 in pond
- -- Ten spot elevations on-site to be determined by JORDAN Field Representative.
- -- Six existing monitoring well locations

Summarize the results of the Task 3 survey and present in report to Jordan.

3. Great Lakes Carbon:

- Task 2: Attend the site/information meeting with Jordan and NYSDEC prior to the start of the field activities.

- Task 3: Map the 7-acre landfill located within Great Lakes Carbon Manufacturing facility at 6200 Niagara Falls Boulevard, Niagara Falls, Niagara County, New York, indicating location of Pikes Creek along western side of landfill, power lines along northern side of landfill, drum storage area east of landfill, storm drain south of landfill, scrap metal pile, scrap wood pile, transformers, and box trailers. Horizontal and vertical control to be established at the following points during Task 3:

  - -- Bridge over Pikes Creek near western entrance to landfill
  - -- Scrap metal pile
  - -- Scrap wood pile
  - -- Transformers
  - -- Drum storage area
  - -- Power line
  - -- Storm drain
  - -- Six soil sampling locations
  - -- Ten spot elevations on-site to be determined by JORDAN Field Representative

  Summarize the results of the Task 3 survey and present in a report to Jordan.

- Task 4: Remobilize to the site and establish horizontal and vertical control at 2 monitoring wells. Include the ground surface elevation, top of protective casing and top of well PVC riser. Plot locations on the site map and submit summary report to Jordan.

ATTACHMENT A

TECHNICAL SPECIFICATIONS FOR SURVEYING LOCATION AND ELEVATION OF SAMPLING LOCATIONS, MONITORING WELLS AND OTHER KEY POINTS

A. SCOPE

1. General - This specification defines the technical requirements for surveying and related items. It is not the intent of this specification to outline those technical requirements adequately covered by the referenced standards. POPLI shall furnish high quality work and materials meeting the requirements of this specification and industry standards.

2. Work to be Provided by POPLI - POPLI's work shall include furnishing supervision, labor, materials, and equipment necessary to accomplish the scope of work as specified herein. All coordinates should be reported and referenced from the horizontal control at the site established by POPLI.

3. Work to be Provided by JORDAN - JORDAN shall provide site access through NYSDEC and services specified in the Scope of Services.

B. CODES AND STANDARDS

Survey services furnished shall be in accordance with all applicable State of New York Codes and Standards.

C. MATERIALS

1. Benchmarks/Monuments - The benchmarks/monuments, if required, shall be installed with the tops flush with the ground surface. The monuments to be permanently affixed to the bases shall consist of 3-inch diameter brass plates, permanently etched with the following information:

   (a) The point on the plate of known coordinates and elevation.

   (b) The elevation of the benchmark and the datum to which it refers.

   (c) The coordinates of the monument and the coordinate system to which they refer.

   (d) The name of the Surveyor and the date of the benchmark/monument installation.

2. Stakes - The stakes used to locate temporary benchmarks and reference points, soil borings, and monitoring wells shall be composed of hardwood with a minimum nominal 1-by-1-inch cross-section. The stakes shall be at least 40 inches long. The top 6 inches of the stakes shall be painted fluorescent orange. A piece of colored

flagging shall be attached to the top of the stakes to facilitate identifying them in the field.

D. TECHNICAL REQUIREMENTS

1. Description of Services - POPLI shall provide all supervision, labor, materials, and equipment necessary to provide the surveying and related services described herein.

   (a) Establish the horizontal location (to the nearest 1.0 foot) and the vertical elevation (to the nearest 0.01 foot) for each monitoring well. For each well, three vertical elevations measurement shall be required: the top of the uncapped well riser, the top edge of the protective casing, and the ground surface next to the well.

   (b) Establish the horizontal location (to the nearest 1.0 foot) and the vertical elevation (to the nearest 0.01 foot) for locations stated by JORDAN or described in the scope of services.

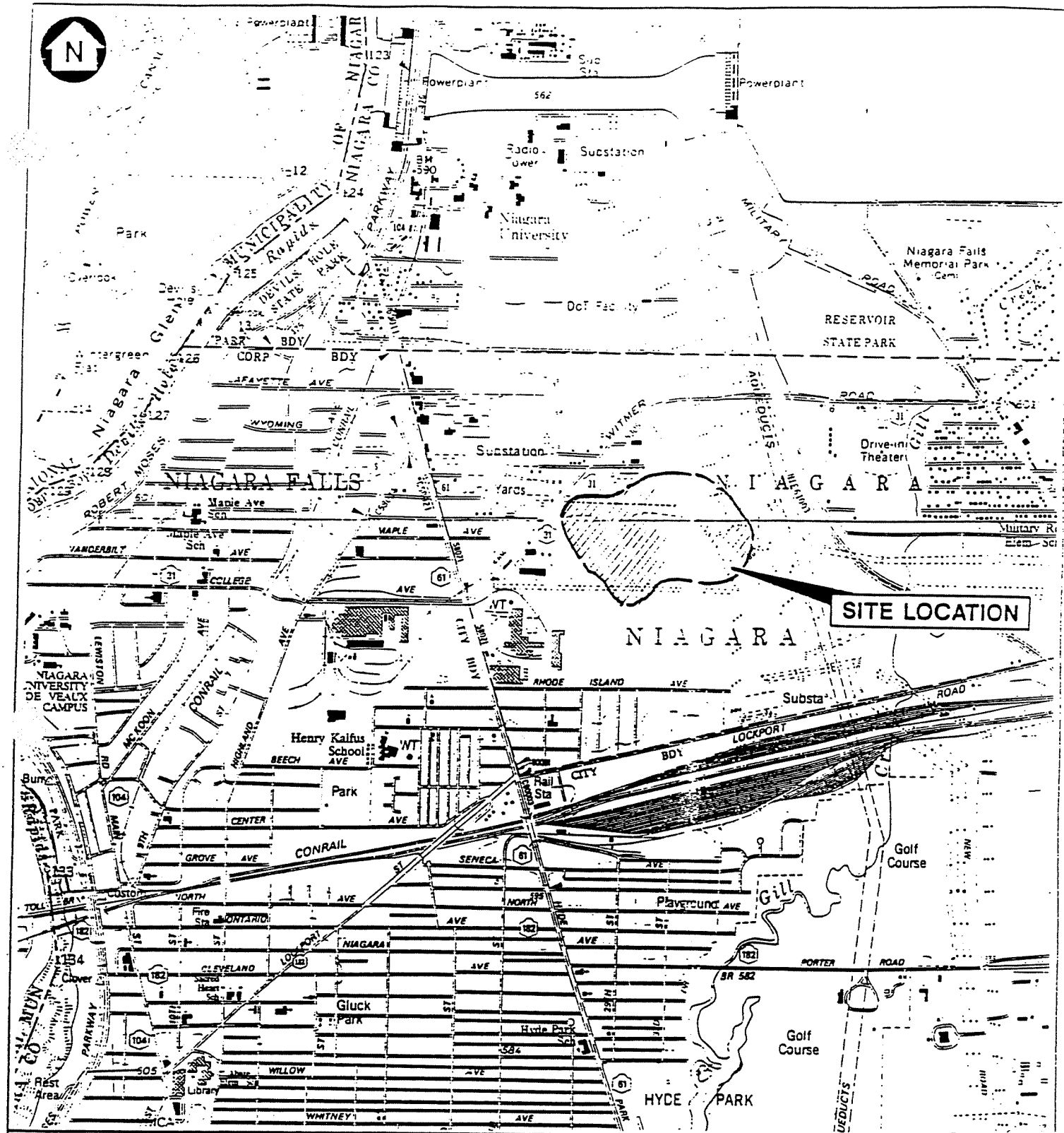
   Horizontal positions shall be tied into the New York State Plan Coordinate System. Vertical elevations shall be tied to mean sea level as determined by the 1929 General Adjustment. Horizontal and vertical survey control lines on loops shall be at third order accuracy. POPLI is responsible for establishing the appropriate horizontal and vertical control at the site (i.e. locating existing benchmarks, etc.). If benchmarks for the New York State Plan Coordinate System are not within 1-mile of the site, POPLI may elect to establish the site control from a permanent structure on the site. Use of an alternate site control point shall be subject to prior approval by JORDAN.

2. Report - For each site a final report shall be provided. The final report shall be bound and shall contain the following items: (1) a title block with the name and address of POPLI; 2) a statement(s) attesting to the accuracy and completeness of the work in accordance with normally accepted practice for work of this type; and (3) the name, signature, and New York Land Survey or License number and seal of the person(s) responsible for the work.

   The report shall contain photocopies of all field notes and computations as an appendix. The report text shall describe procedures, traverses, and closures, and will note any significant observations relative to the survey.

ATTACHMENT B

FIGURES



SOURCE: N.Y.S. DEPARTMENT OF TRANSPORTATION. NIAGARA FALLS AND LEWISTON QUADRANGLE DATED 1989 AND 1976. RESPECTIVELY, 7.5 MINUTE SERIES

SITE NO: 932001
LOCATION: CITY OF NIAGARA FALLS
NIAGARA COUNTY

SCALE IN FEET

0 2000 4000

FIGURE 1
SITE LOCATION MAP
SKW ALLOYS, INC. SITE
PRELIMINARY SITE ASSESSMENT
NEW YORK STATE DEC

EC JORDAN CO

6291-30

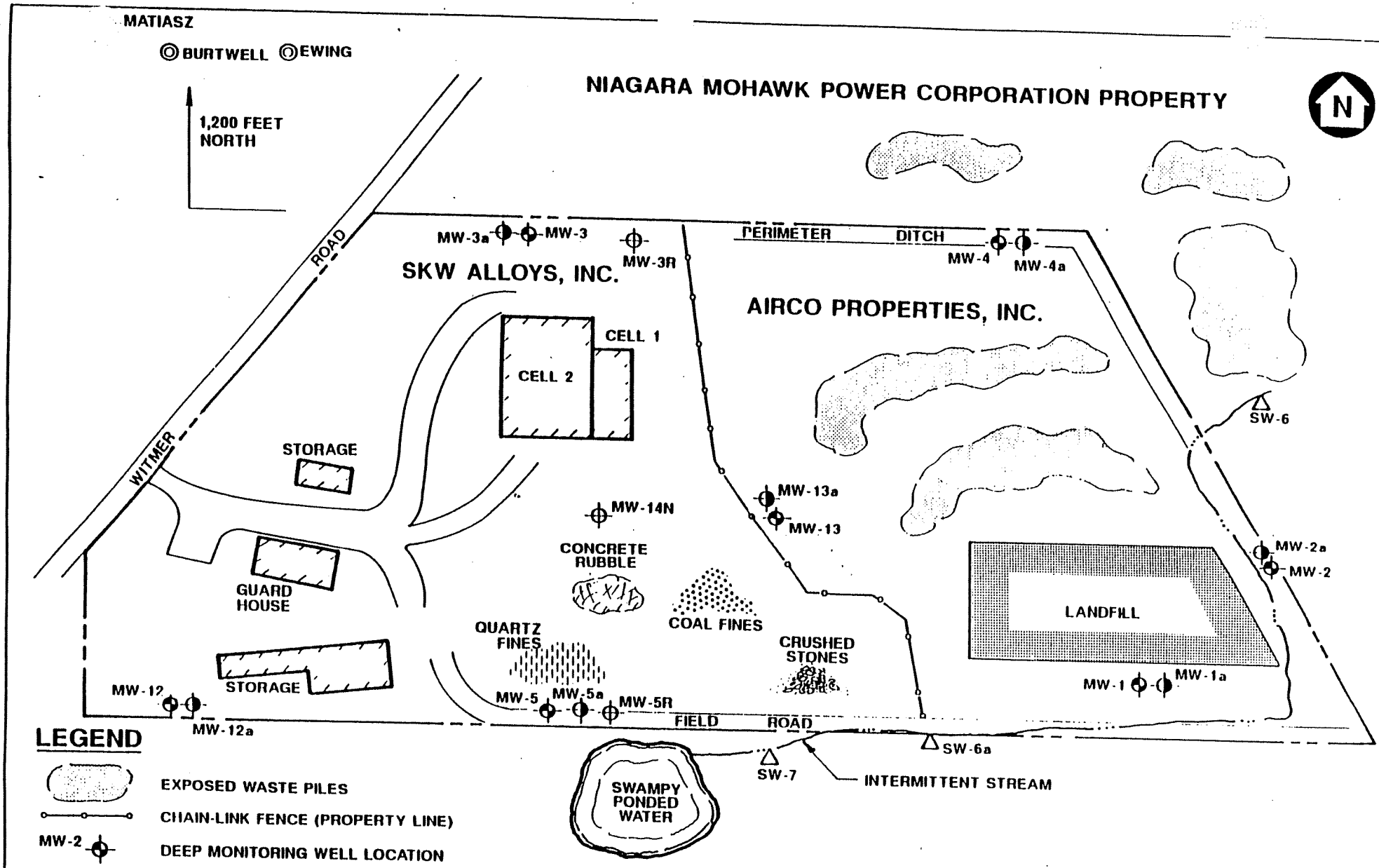
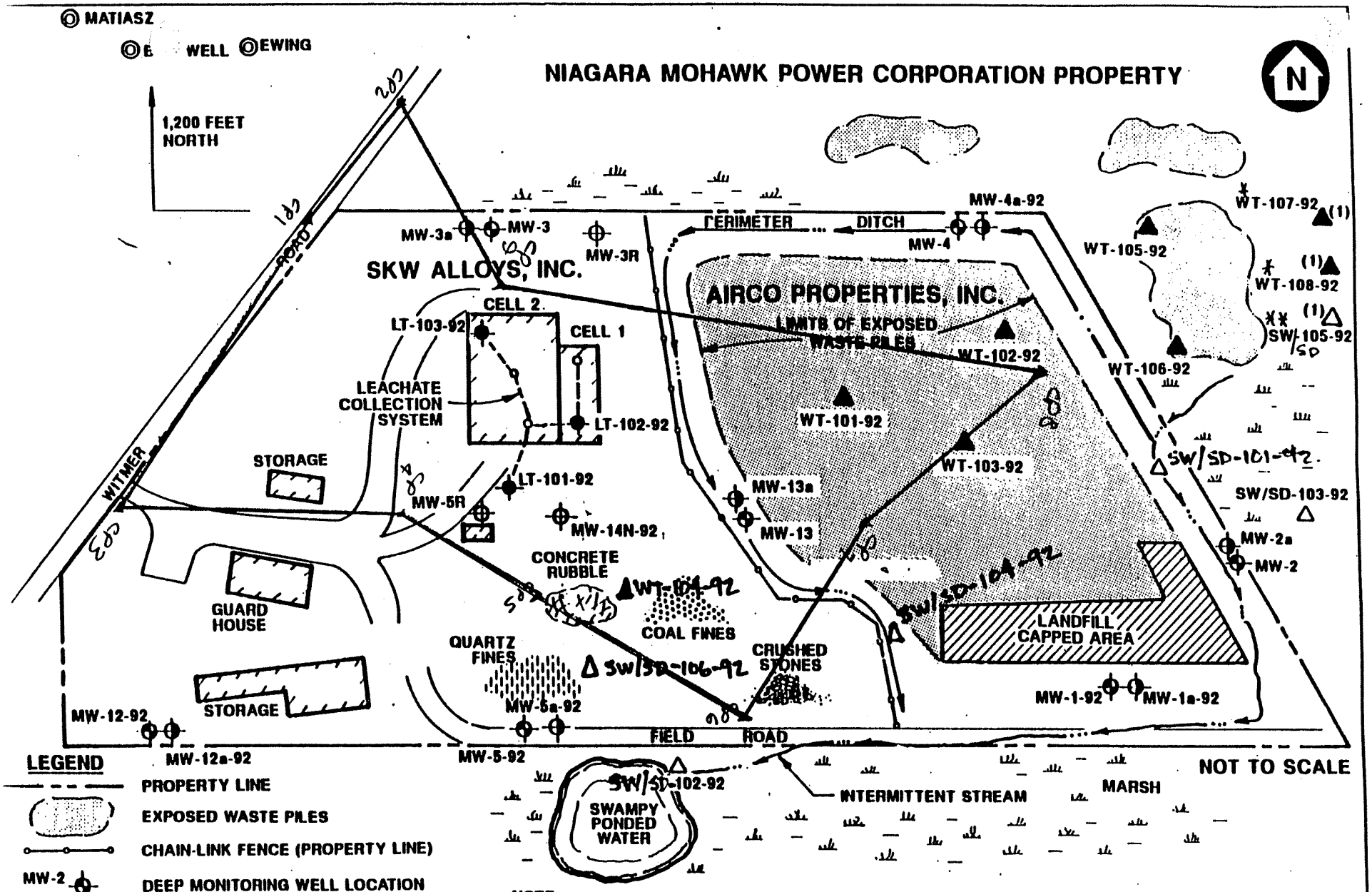


FIGURE 2
SITE SKETCH MAP
SKW ALLOYS, INC. SITE
PRELIMINARY SITE ASSESSMENT
NEW YORK STATE DEC

6291-30

E.C.JORDAN CO.



LEGEND

- PROPERTY LINE
- EXPOSED WASTE PILES
- CHAIN-LINK FENCE (PROPERTY LINE)
- MW-2 — DEEP MONITORING WELL LOCATION
- MW-2a — SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- SW-7 △ — SURFACE WATER SAMPLING SITE
- ◎ — RESIDENTIAL WELLS 1,200 FEET NORTH
- LT ● — LEACHATE COLLECTION SAMPLE
- WT ▲ — WASTE PILE SAMPLE (COMPOSITE)

NOTE:

(1) SAMPLING LOCATIONS TO BE DETERMINED IN THE FIELD WITH NYSDEC GUIDANCE.

* WT-107 & WT-108-92 Located under second set of power lines.

** SW/SD-105-92 located to the north near culvert at rear of auto storage area.

FIGURE 4-1
EXPLORATION LOCATIONS
SKW ALLOYS, INC. SITE
PRELIMINARY SITE ASSESSMENT
NEW YORK STATE DEC

E.C. JORDAN CO.

HORIZONTAL CONTROL SUMMARY

III. HORIZONTAL CONTROL

Om P. Popli, P.E., L.S., P.C. established indiscriminate control near the mapping area suitable for starting and closing the control traverse. This monumentation is not tied to any triangulation net or the New York State Plane Coordinate System.

Station CP-1 coordinates were scaled from the USGS Quadrangle Lewiston to be N 1,138,950 E 380,150. The bearing of N40° E between CP-1 and CP-2 was scaled from the same USGS Quadrangle Lewiston. These two control points were used to start and close the control traverse.

All traverse distances and angles were measured with a Topcon GTS-2B total station which reads direct to six seconds of arc. All distances were measured twice, one measurement in feet, one measurement in meters, measured in both directions. All horizontal angles were observed four times; two (2) direct and two (2) inverted from two different plate settings. The average of the four angles was used as the final angle.

The traverse loop established from station CP-1, ran to the south and east through the project and closed back onto station CP-1 with a precision of 1:139,589. A Standard Compass Rule adjustment was then made.

All computations were completed utilizing Om P. Popli, P.E., L.S., P.C.'s Personal Computers and TDS PC Plus Surveying Software.

TRAVERSE DATA AND CLOSURE

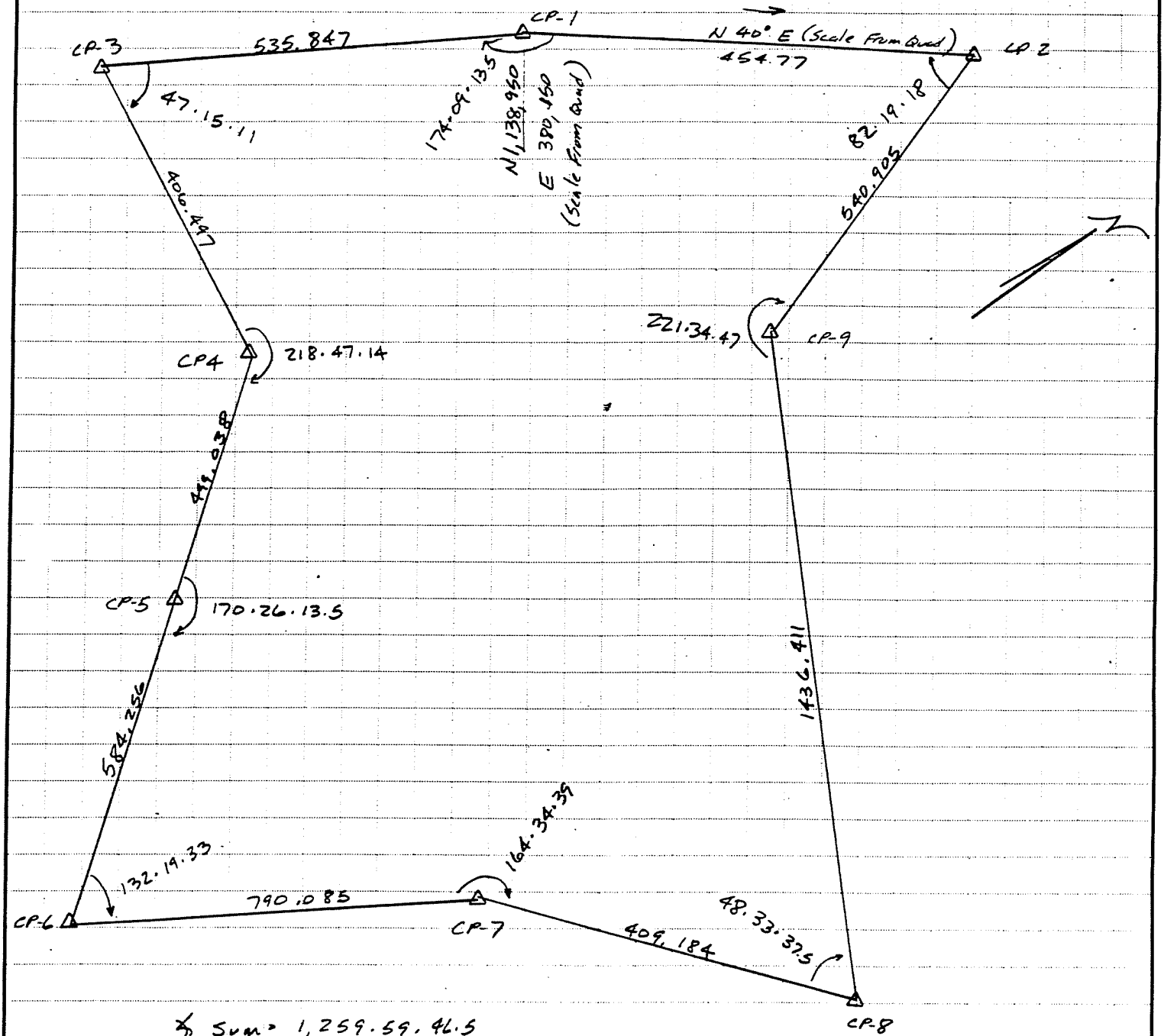
JOB Name : SKW-CTRL

Final 12.15.92 (Compass Rule)

Point	Northing	Easting	Elevation	Description
1	1138950.0000	380150.0000	100.0000	CP-1(WITMER)
2	1139298.3811	380442.3261	100.0000	CP-2(WITMER)
3	1138506.5713	379849.1693	593.6850	CP-3
4	1138567.3104	380251.1054	600.4900	CP-4
5	1138316.3307	380682.4399	599.9380	CP-5
6	1138110.4685	381229.2290	595.1060	CP-6
7	1138469.6890	381932.9360	618.7780	CP-7
8	1138745.9489	382234.7877	629.7460	CP-8
9	1138898.4757	380806.5051	630.8770	CP-9
11	1138950.0000	380150.0000	100.0000	CP-1(CLOSE)

OM P. POPLI, P.E.
Consulting Engineers & Surveyors
44 Saginaw Drive
ROCHESTER, NEW YORK 14623
(716) 442-6940
FAX (716) 244-6008

JOB SKW · ALLOYS
SHEET NO. 1 OF
CALCULATED BY BKM DATE 12-15-92
CHECKED BY DATE
SCALE



Σ Sum = 1,259.59.46.5
Theo. Σ Sum = 1,260
Σ err = −0°00'13.5"
No Σ Adj. Made

Raw closure = 1: 139,589
Compass Rule Adj.

Poopli Consultants
44 Saginaw Drive
Rochester, N.Y. 14623
(716) 442-6940

P.I.N.:
File: \OPRO\SURVEY\SKW

Date: 16-Dec-92

SLOPE DISTANCE REDUCTIONS

****

Course	Zenith Angle					Slope		Horizontal Distance
	Deg	Min	Sec=	Degrees	Radians	(Meters)	(Feet)	(Feet)
1 - 3 Direct	90	58	12	90.970		163.350	535.924	
1 - 3 Reverse	269	1	48	269.030				
1 - 3 Average	90	58	12	90.970	1.588			535.8473
3 - 4 Direct	89	0	48	89.013		123.919	406.558	
3 - 4 Reverse	270	59	36	270.993				
3 - 4 Average	89	0	36	89.010	1.554			406.4969
4 - 5 Direct	90	2	54	90.048		152.107	499.038	
4 - 5 Reverse	269	57	12	269.953				
4 - 5 Average	90	2	51	90.048	1.572			499.0375
5 - 6 Direct	90	29	18	90.488		178.088	584.277	
5 - 6 Reverse	269	31	0	269.517				
5 - 6 Average	90	29	9	90.486	1.579			584.2560
6 - 7 Direct	88	16	54	88.282		240.927	790.441	
6 - 7 Reverse	271	43	18	271.722				
6 - 7 Average	88	16	48	88.280	1.541			790.0852
7 - 8 Direct	88	28	30	88.475		124.764	409.330	
7 - 8 Reverse	271	31	48	271.530				
7 - 8 Average	88	28	21	88.473	1.544			409.1844
8 - 9 Direct	89	57	42	89.962		437.819	1436.411	
8 - 9 Reverse	270	2	36	270.043				
8 - 9 Average	89	57	33	89.959	1.570			1436.4108
9 - 2 Direct	92	47	42	92.795		165.064	541.547	
9 - 2 Reverse	267	12	42	267.212				
9 - 2 Average	92	47	30	92.792	1.620			540.9048

BASELINE TIE SHEETS

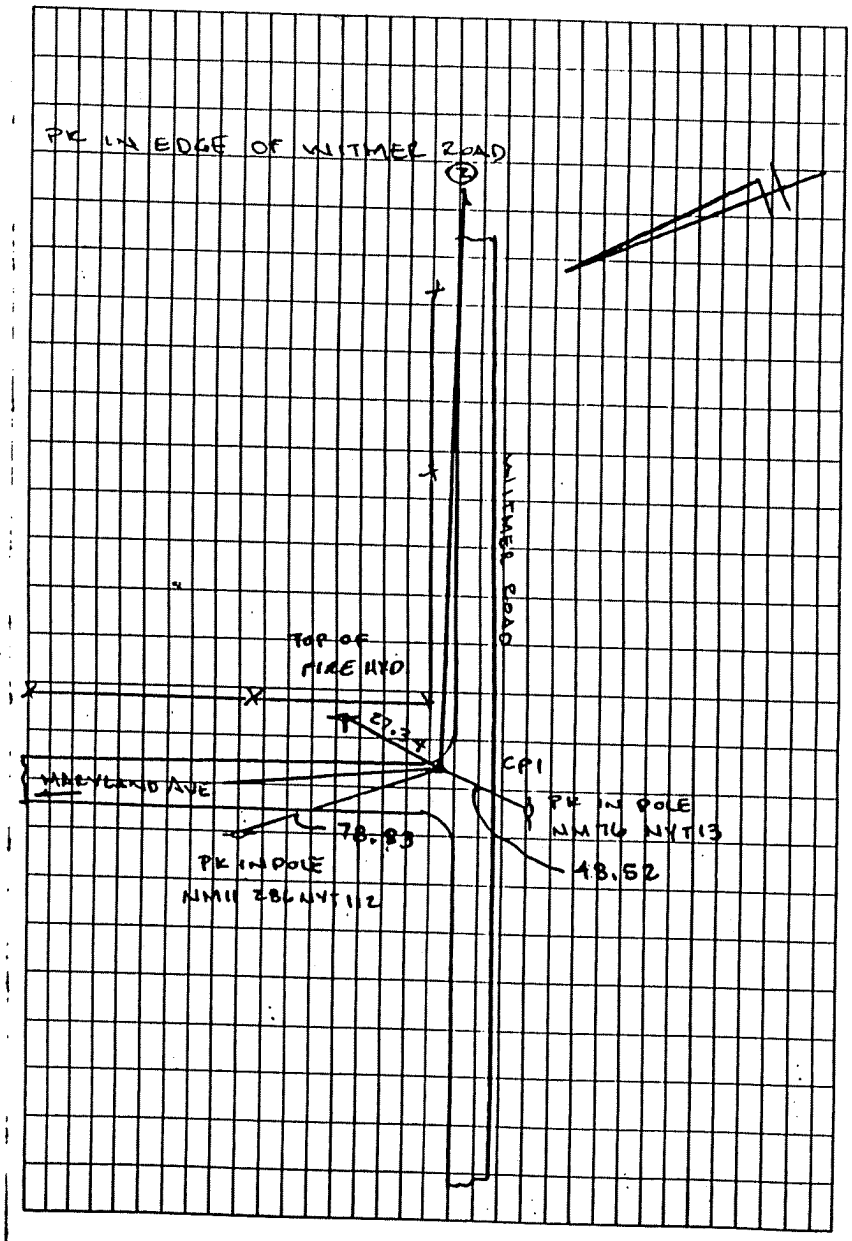
WITMER ROAD SITE

KR
KH

CLOUDY 350 (5)

11/30/92		CONTROL		
		T @ CP 6	BIG. CP 5	
FS (1)		77·58·24	257·58·21	
B.S.		00·00·00	179·59·57	
∠		77·58·24	77·58·24	
AVG ∠				
FS		167·58·27	347·58·24	
B.S.		90·00·00	269·59·57	
∠		77·58·27	77·58·27	
AVG ∠				
B.S. VERT			FT.	M
	D	88·16·12	464.495	141.578
	R	271·44·06		
	∠			
FS VERT			FT.	M.
	D	90·11·33	666.345	203.102
	R	269·49·00		
	∠			

(6)



WITMER ROAD SITE

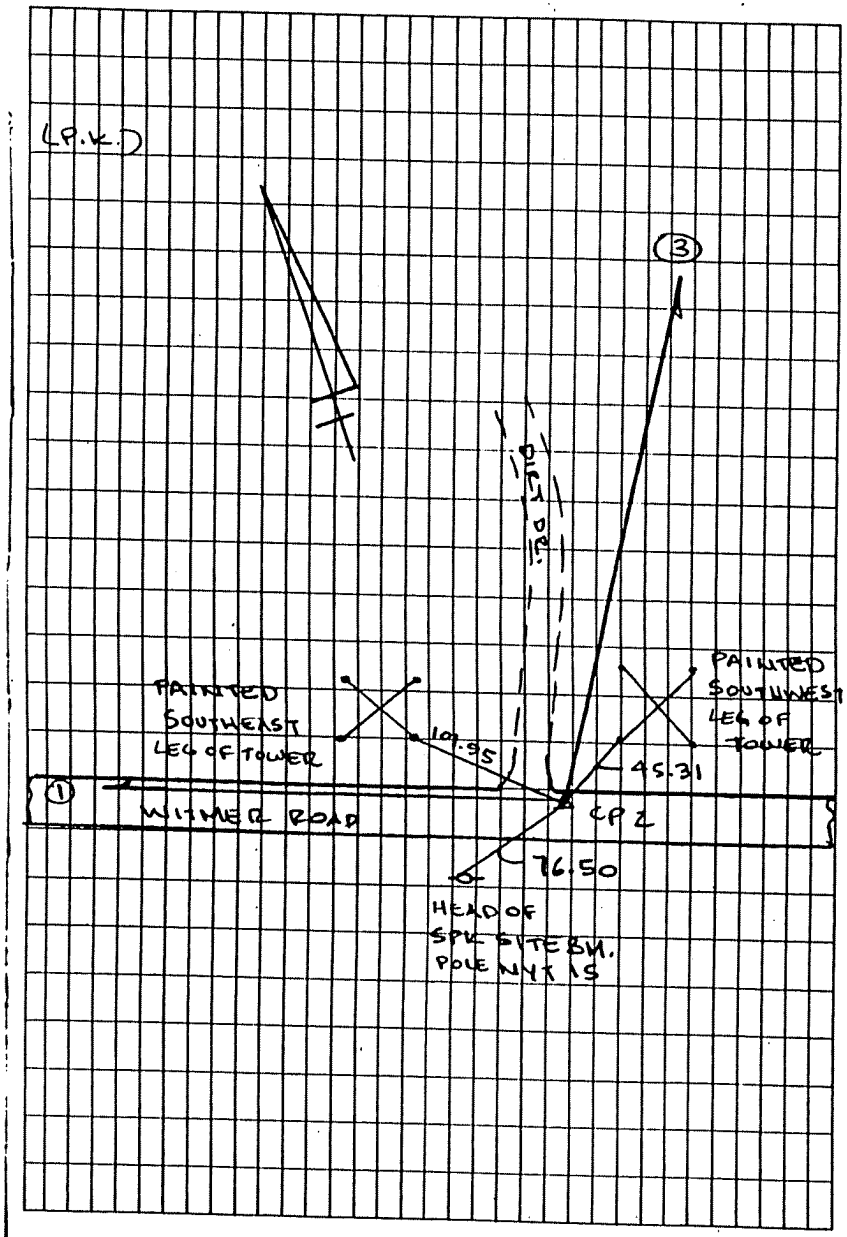
11/30/92		CONTROL			
		T @ CP1 B.S. CP6			
F.S. (E)	133·23·36		313·23·33		
B.S.	00·00·00		179·59·57		
±	133·23·36		133·23·36		
AVG ±					
F.S.	223·23·33		43·23·30		
B.S.	90·00·00		269·59·57		
±	133·23·33		133·23·33		
AVG ±					
BS VERT			FT.	M	
D	89·49·06		666.345	203.102	
R	270·11·27				
A					
FS VERT			FT.	M	
D	89·49·18		454.775	138.616	
R	270·11·18				
A					

133·23·34.5

KR
KH

CLOUDY 35°

(6)



VERTICAL CONTROL SUMMARY

VI VERTICAL CONTROL SUMMARY

All elevations herein are based upon a scaled elevation of 610', from the USGS Quadrangle Lewiston, where contour 610' crosses Witmer Road near the site.

The vertical control loop originated at the edge of pavement of Witmer Road at the 610' contour crossing, and looped through the site benchmark for the Witmer Road Site and closed back onto the same point with an error of -0.04'. No adjustment was made.

The on site vertical control loop for SKW Alloys, Inc. began at the site benchmark for the Witmer Road Site, and looped through the two site benchmarks and closed back onto the same point with an error of +0.05. This error was equally distributed throughout the loop.

Site benchmark 1 is a railroad spike in PP NM73 NYT10, on the eastside of Witmer Road near the site entrance. Elevation = 595.11'.

Site benchmark 2 is the northeast corner of the east headwall near the gate between the properties of SKW Alloys, Inc. and Airco Properties, Inc.
Elevation = 597.86'.

COORDINATE AND ELEVATION SUMMARY

JOB Name : SKW-TOPO

Point	Northing	Easting	Elevation	Description
1	5000.0000	5000.0000	100.0000	START
101	1138809.9341	380051.6657	599.8924	EP
102	1138693.0766	379957.5510	596.7608	EP
103	1138533.2825	379829.5875	593.1785	EP
104	1138381.8028	379707.8545	591.5144	EP
105	1138235.4959	379588.7022	590.7373	EP
106	1138219.2844	379606.4217	590.6924	EP
107	1138359.2678	379720.2451	591.6731	EP
108	1138509.9345	379842.1539	593.1200	EP/EDGE DR
109	1138514.2834	379856.6586	593.5311	EDGE DR
110	1138506.9636	379868.0004	593.5902	EDGE DR
111	1138494.0602	379873.6550	593.5834	EDGE DR
112	1138477.1883	379876.5710	593.6325	EDGE DR
113	1138471.9698	379914.2362	594.0161	EDGE DR
114	1138386.3247	379920.1461	594.7126	EDGE DR
115	1138385.1212	379947.3073	595.3453	EDGE DR
116	1138398.5401	379946.7601	595.3249	EDGE DR
117	1138399.2838	379934.6677	594.9649	EDGE DR
118	1138424.0657	379932.7863	594.7677	EDGE DR
119	1138425.2537	379945.3900	595.4080	EDGE DR
120	1138439.3597	379943.9904	605.5141	EDGE DR
121	1138439.2662	379933.2599	594.7129	EDGE DR
122	1138497.3137	379933.1355	594.0841	EDGE DR
123	1138502.9950	380033.1951	595.8422	EDGE DR
124	1138540.4788	380040.8812	595.3851	EDGE DR
125	1138536.0462	379966.8177	594.7097	EDGE DR
126	1138526.3116	379965.9017	594.7251	EDGE DR
127	1138526.4173	379961.3968	594.7697	EDGE DR
128	1138553.3912	379958.8397	594.9689	EDGE DR
129	1138552.7856	379905.5886	594.3277	EDGE DR
130	1138560.4497	379898.7680	594.2515	EDGE DR
131	1138577.4338	379896.7810	594.3372	EDGE DR/EP
132	1138689.6253	379985.9120	596.9140	EP
133	1138791.6984	380067.6389	599.5917	EP
134	1138753.4109	380053.0102	599.0230	PP NM75 NYT12
135	1138601.8032	379931.4051	595.1306	PP NM74 NYT11
136	1138510.8461	379857.4908	593.8460	PP NM73 NYT10 BM
137	1138419.0901	379783.2116	593.0088	PP NYT9 NM72
138	1138316.3825	379700.3457	591.7530	PP NYT8 NM71
139	1138237.0801	379636.6687	591.1085	PP NYT7 NM70
140	1138635.5147	379979.1899	597.1446	COR CLF
141	1138595.0892	379978.4222	596.7930	COR CLF
142	1138574.4662	379960.6175	595.9275	< CLF
143	1138527.2509	379963.0937	594.9603	GATE POST
144	1138506.7913	379963.7413	594.4982	GATE POST
145	1138499.3692	379964.0164	594.4605	END CLF@BLDG
146	1138382.0537	379947.5839	594.5685	BEG CLF
147	1138379.2633	379893.2371	593.5843	COR CLF
148	1138365.3326	379892.9170	592.5672	GATE POST
149	1138349.8208	379893.1364	593.0513	GATE POST
150	1138330.6261	379894.9340	596.2235	COR CLF
151	1138284.9244	379856.6770	596.5586	CLF
152	1138382.1185	379947.6660	594.5593	COR BLDG
153	1138452.0094	379944.2857	594.2495	COR BLDG
154	1138452.9834	379962.7576	594.3487	COR BLDG
155	1138462.8599	379962.3127	594.4176	COR BLDG
156	1138462.9868	379964.3097	594.4328	COR BLDG
157	1138485.7106	379963.6365	594.4850	COR BLDG
158	1138486.0056	379959.5226	594.3928	COR BLDG

159	1138499.1010	379958.8389	594.3455	COR BLDG
160	1138594.3861	379973.4900	596.7942	COR BLDG
161	1138537.7333	379981.4924	595.0342	COR BLDG
162	1138541.5810	380058.3045	595.6570	COR BLDG
163	1138392.0865	380151.2529	594.1372	COR BLDG
164	1138508.3948	380145.4635	595.6228	COR BLDG
165	1138598.4676	380055.2776	598.1351	COR BLDG
166	1138541.2591	380058.1232	595.7356	EDGE DR
167	1138525.9900	380090.1893	595.4378	CL 20'DR/CL 20DR
168	1138683.7359	380209.9081	600.4102	CL 20'DR SIDE
169	1138517.9325	380204.3235	596.3402	CL 20'DR MAIN
170	1138474.6583	380330.5031	596.8313	CL 20'DR @ CL
171	1138528.1718	380411.3916	598.8013	CL 18'DR
172	1138624.2479	380554.1375	608.0861	CL 18'DR
173	1138455.4126	380442.6317	596.9391	CL 20'DR
174	1138698.0313	380588.0126	601.0812	BOT.LANDFILL
175	1138861.7615	380587.4180	601.1872	BOT.LANDFILL
176	1139059.4553	380604.5556	605.4764	BOT.LANDFILL
177	1139110.2601	380368.9114	604.3613	COR CLF
178	1138568.6596	380178.6628	597.4808	POLE
179	1138521.5741	380299.8915	598.1017	POLE
180	1138409.8927	380395.8232	596.4904	POLE
181	1138329.0560	380396.9538	595.5291	POLE
182	1138232.6678	380403.4443	596.1780	COR BLDG
183	1138391.9640	380232.8915	595.8242	POLE
184	1138398.2832	380313.4563	597.3833	POLE
185	1138401.5491	380390.9684	597.3549	POLE
186	1138407.4690	380463.3998	595.4688	POLE
187	1138455.4803	380567.4832	596.4385	CL 20'DR
188	1138307.5044	380573.9179	596.6281	CL 20'DR
189	1138119.9848	380566.6127	594.5208	CL 20'DR
190	1138089.5822	380590.4040	593.9327	CL 20'DR
191	1138077.1804	380633.2177	593.4444	CL 20'DR
192	1138082.2137	380783.5237	593.4768	CL 20'DR
193	1138237.0303	380489.8335	596.1868	COR BLDG
194	1138213.2055	380490.9667	596.4933	COR BLDG
195	1138058.3494	380369.9808	594.8836	CLF POT
196	1138186.2279	380527.9090	595.8774	MW
197	1138195.2406	380531.1129	596.2076	MW
198	1138376.2036	380586.2948	595.4082	MW
199	1138407.3870	380535.3535	596.3622	POLE
200	1138410.4289	380621.7558	595.0513	POLE
201	1138410.9236	380624.0454	594.9801	COR BLDG
202	1138411.5534	380635.9012	594.4761	COR BLDG
203	1138403.0459	380636.4657	594.8908	COR BLDG
204	1138403.8343	380651.5024	595.0829	COR BLDG
205	1138431.8947	380650.0077	596.8267	COR BLDG
206	1138430.8303	380622.8698	596.4433	COR BLDG
207	1138426.9125	380721.7191	596.2971	LT 101-92
208	1138596.2666	380580.5900	598.5812	BOT.LANDFILL
209	1138593.6161	380668.2005	597.4365	BOT.LANDFILL
210	1138590.5221	380851.1914	599.1642	BOT.LANDFILL
211	1138588.4047	380896.1590	609.6440	CL 18'DIRT DR
212	1138540.5671	380851.3443	601.7641	CL 18'DIRT DR
213	1138496.2527	380771.5269	597.6539	CL 18'DIRT DR
214	1138477.1532	380643.9939	596.7684	CL 18'DIRT DR
215	1138476.2935	380833.9489	597.1215	DEBRIS PILE
216	1138554.5758	380892.5202	603.3571	DEBRIS PILE
217	1138612.0934	380979.2397	602.0649	DEBRIS PILE
218	1138605.4210	381080.9517	598.2568	DEBRIS PILE
219	1138542.3922	381075.2071	598.2084	DEBRIS PILE
220	1138505.0277	381002.4892	597.7310	DEBRIS PILE
221	1138450.0154	380986.6495	596.8368	DEBRIS PILE

222	1138447.5169	380852.8519	596.6450	DEBRIS PILE
223	1138307.9145	380971.6385	596.3819	MW
224	1138090.6204	380896.0209	593.6333	CL 20'DR
225	1138093.2779	381068.6085	593.7002	CL 20'DR
226	1138103.4903	381315.6243	595.3100	CL 20'DR
227	1138111.4976	381693.8419	596.9093	CL 20'DR
228	1138089.9520	381708.5180	591.8960	CLF INT.
229	1138110.5843	381707.0197	597.5203	GATE POST
230	1138129.0560	381706.4413	596.9077	GATE POST
231	1138269.6910	381703.1088	597.0181	CLF
232	1138383.0295	381700.4528	600.0251	CLF
233	1138421.6000	381598.5932	598.7465	CLF
234	1138436.7788	381526.0040	598.4723	CLF
235	1138440.0709	381418.3338	596.9359	CLF
236	1138584.8724	381297.2208	597.4039	CLF
237	1138704.0481	381234.7487	601.8792	CLF
238	1139137.4828	381221.7204	608.1273	CLF INT
239	1138548.7506	381327.5805	598.5153	MW 13
240	1138552.6510	381325.9324	599.0450	MW 13A
241	1138286.8678	381156.8923	598.6895	WT 104
242	1138139.7509	381162.4251	594.3763	SD/SW 106
243	1138076.7701	381071.7793	593.3376	SD/SW 102
244	1138959.7408	380787.9442	628.0256	LT 103-92
245	1138713.5128	380978.5521	628.0976	LT 102-92
246	1138869.0703	381173.1580	603.1506	BOT.LANDFILL
247	1138954.0139	381179.9154	604.6113	BOT.LANDFILL
248	1138957.3183	381092.1165	606.7103	BOT.LANDFILL
249	1138963.6157	381011.3182	606.9644	BOT.LANDFILL
250	1139087.3001	380991.4174	605.5186	BOT.LANDFILL
251	1139087.4656	380831.7842	605.0880	BOT.LANDFILL
252	1139070.3365	380603.3052	604.8386	BOT.LANDFILL
253	1139108.7285	380565.7448	604.8212	MW
254	1139111.2945	380555.9151	604.8979	MW
255	1139116.6968	381091.3107	606.7138	MW
256	1138962.0483	380786.2759	627.9360	LEACHATE COLLECT
257	1138871.8686	380983.7904	628.6070	LEACHATE COLLECT
258	1138874.8714	381074.5818	628.6187	LEACHATE COLLECT
259	1138712.3827	380981.4704	627.9453	LEACHATE COLLECT
260	1138738.9594	380869.1572	627.7602	LEACHATE COLLECT
261	1138863.0818	380821.3178	631.9815	LEACHATE COLLECT
262	1139013.6285	380664.3300	623.2385	TOP EDGE LANDFLL
263	1139030.2592	380943.0596	622.0141	TOP EDGE LANDFLL
264	1138919.1341	380953.0695	622.2295	TOP EDGE LANDFLL
265	1138891.6542	381100.6259	624.4784	TOP EDGE LANDFLL
266	1138698.3810	381087.5257	626.6135	TOP EDGE LANDFLL
267	1138680.5702	380937.2879	622.6031	TOP EDGE LANDFLL
268	1138658.7637	380652.8276	620.9728	TOP EDGE LANDFLL
269	1138111.7601	381713.8069	597.8767	SITE BM 2
270	1138119.8272	381718.6757	597.0827	CL 20'DR
271	1138135.1915	381754.2518	596.1428	CL 20'DR
272	1138175.3661	381778.2455	597.6038	CL 20'DR
273	1138254.8941	381810.9954	606.5280	CL 20'DR
274	1138315.5278	381708.3597	597.4060	SD/SW 104
275	1138412.8840	381726.7926	601.0341	BOT.LANDFILL
276	1138483.2893	381540.3096	602.4247	BOT.LANDFILL
277	1138518.7112	381428.0297	602.6506	BOT.LANDFILL
278	1138731.4631	381276.7570	602.8298	BOT.LANDFILL
279	1138521.6954	381947.0160	617.8603	WT 103
280	1138207.3227	381759.1222	597.4953	BOT.LANDFILL
281	1138126.0404	381861.5891	597.1674	BOT.LANDFILL
282	1138127.6986	382060.6498	597.9253	BOT.LANDFILL
283	1138137.0200	382204.2166	600.1939	MW 1
284	1138136.5887	382211.9233	599.3911	MW 1A

285	1138695.3812	381712.5152	623.7021	WT 101
286	1139008.2369	381314.2047	605.6471	BOT.LANDFILL
287	1139091.6905	381515.8991	609.6058	BOT.LANDFILL
288	1139108.3906	381696.9679	610.0507	BOT.LANDFILL
289	1139149.8873	381832.2296	609.4485	MW 4
290	1139152.4983	381821.9658	609.0806	MW 4A
291	1139099.8726	381975.0557	611.1115	BOT.LANDFILL
292	1139070.2937	382052.7842	612.4884	BOT.LANDFILL
293	1138862.2976	382201.6626	615.9285	BOT.LANDFILL
294	1138592.3870	382407.8720	605.1114	BOT.LANDFILL
295	1138512.0767	382486.8486	601.1606	SD/SW 101
296	1138412.6544	382563.2536	602.3013	MW 2
297	1138407.7363	382570.0453	601.9293	MW 2A
298	1138261.0920	382606.1410	599.7777	BOT.LANDFILL
299	1138182.9932	382610.9229	599.5362	BOT.LANDFILL
300	1138114.0641	382766.2300	598.5227	COR CLF
301	1138166.0536	382807.3135	598.1341	SD/SW 103
302	1139013.1253	382247.0590	606.3791	WT 105
303	1139213.9926	382073.6400	602.2972	COR CLF
304	1139272.6855	382811.8008	615.0496	WT 107
305	1138748.3795	382101.0740	620.4360	WT 102

FIELD NOTES

[illegible] ALLOY.

2/8/92 CONTROL

	$\overline{\wedge}$ @ CP1	BS. CP 2	
F.S. (3)	174·09·12	354·09 12	
B.S.	00·00·00	180 00 00	
∡	174·09·12	174·09 12	
AVG ∡			
F.S	264 09 15	84 09·15	
B.S.	90·00 00	270·00·00	
∡	174·09·15	174·09·15	
AVG ∡	174-09-13.5		
BS VERT		FT	M
D	89·48 00	454 770	138.614
R	270 12 00		
∡			
FS VERT		FT	M
D	[illegible] 12	535 925	163 350
R	269 01 48		
∡			

K2
KH

SNOW 30° (21)

NOTE: CP1 & CP2 FROM
WITMER ROAD SITE THIS BOOK
PAGES 1-6.
(HGH) NEAR EXIT SKID.

FB #83

SKW ALLOYS

SNOW 300 (22)

KH

12/8/92 CONTROL

∠ @ CP 3 B.S. CP 1

F.S. (1)	47-15-12	227-15-09	
B.S.	00-00-00	180-00-00	
∠	47-15-12	47-15-09	
AVG ∠			
F.S.	137-15-12	317-15-12	
B.S.	90-00-00	270-00-00	
∠	47-15-12	47-15-12	
AVG ∠	47-15-11.		
B.S. VERT		FT	M
D	89-02-37	535.910	163.346
R	270-57-24		
∠			
F.S VERT		FT	M
D	89-00-48	426.560	129.919
R	270-59-36		
∠			

(HA-1)

SKW ALLOYS

SNOW 300 (23)

12/8/92		CONTROL		
		Te cp4	B.S. cp3	
FS. ⑤		218-47-15	38-47-15	
B.S.		00-00-00	180-00-00	
±		218-47-15	218-47-15	
AVG ±				
FS.		308-47-15	128-47-09	
B.S.		90-00-00	269-59-57	
±		218-47-15	218-47-12	
AVG ±				
		218.47.14		
B.S. VERT			FT	M
D	91-01-18		406.540	123.914
R	268 58-39			
±				
FS VERT			FT.	M
D	90-02-54		499.040	152.107
R	269-57-12			
±				

(HAT)

SKW ALLOYS

6/8/92		CONTROL		
		∧ @ CP 5	B.S. CP 4	
FS. ⑥	170-26-15		350-26-12	
B.S.	00-00-00		179-59-57	
4	170-26-15		170-26-15	
AVG 4				
F.S.	260-26-12		80-26-09	
B.S.	90-00-00		269-59-57	
4	170-26-12		170-26-12	
AVG 4				
		170.26.13.5		
B.S. VERT			FT.	M
D	89-57-24		409.030	152.104
E	270-02-54			
∠				
F.S. VERT			FT.	M
D	90-29-18		584.275	178.088
E	269-31-00			
∠				

K

KH

SNOW 30"

(24)

(CHART)

SKW ALLOYS

10/8/02		CONTROL			
		⊼ @ CP6	B.S. CP 5		
FS. ①	132-19-33		312-19-33		
B.S.	00-00-00		180-00-00		
⊼	132-19-33		132-19-33		
AVG ⊼					
FS.	222-19-33		42-19-30		
B.S.	90-00-00		269-59-57		
⊼	132-19-33		132-19-33		
AVG ⊼					
		132.19.33			
B.S. VERT			FT.	M	
D	89-32-03		584.265	178.084	
R	270-28-06				
⊼					
FS. VERT			FT.	M	
D	88-16-54		790.440	240.927	
R	271-43-18				
⊼					

R
KH

SNOW 30° (25)

(HUT)

SKW ALLOYS

12/8/92		CONTROL		
		⊼ @ CP 7	BS. CP 6	
FS. (B)		164-34-39	344-34-36	
B.S.		00-00-00	179-59-57	
⊼		164-34-39	164-34-39	
AVG ⊼				
F.S		254-34-39	74-34-36	
B.S.		90-00-00	269-59-57	
⊼		164-34-39	164-34-39	
AVG ⊼				
		164 34 39		
B.S. VERT			FT	M
D		91-44-18	790.440	240.926
R		268-16-00		
⊼				
F.S VERT			FT	M
D		88-28-30	409.330	124.764
R		271-31-48		
⊼				

KR
KH

SNOW 300 (26)

(1+2⊼)

SKW ALLOYS

12/8/92 — CONTROL

KR
KH

SNOW 30° (27)

		⊼ @ CP 8	BS CP 7	
FS ⊙	48-33-36		228-33-36	
B.S.	00-00-00		180-00-00	
⊼	48-33-36		48-33-36	
AVG ⊼				
F.S.	138-33-39		318-33-39	
B.S.	90-00-00		270-00-00	
⊼	48-33-39		48-33-39	
AVG ⊼				
		48-33-37.5		
BS VERT			FT.	M
D	91-30-54		409.325	124.763
R	268-29-24			
⊼				
FS VERT			FT	M
D	89-57-42		1436.410	437.819
R	270-02-36			
⊼				

(WET) TOP OF LANDFILL

SKW ALLOYS

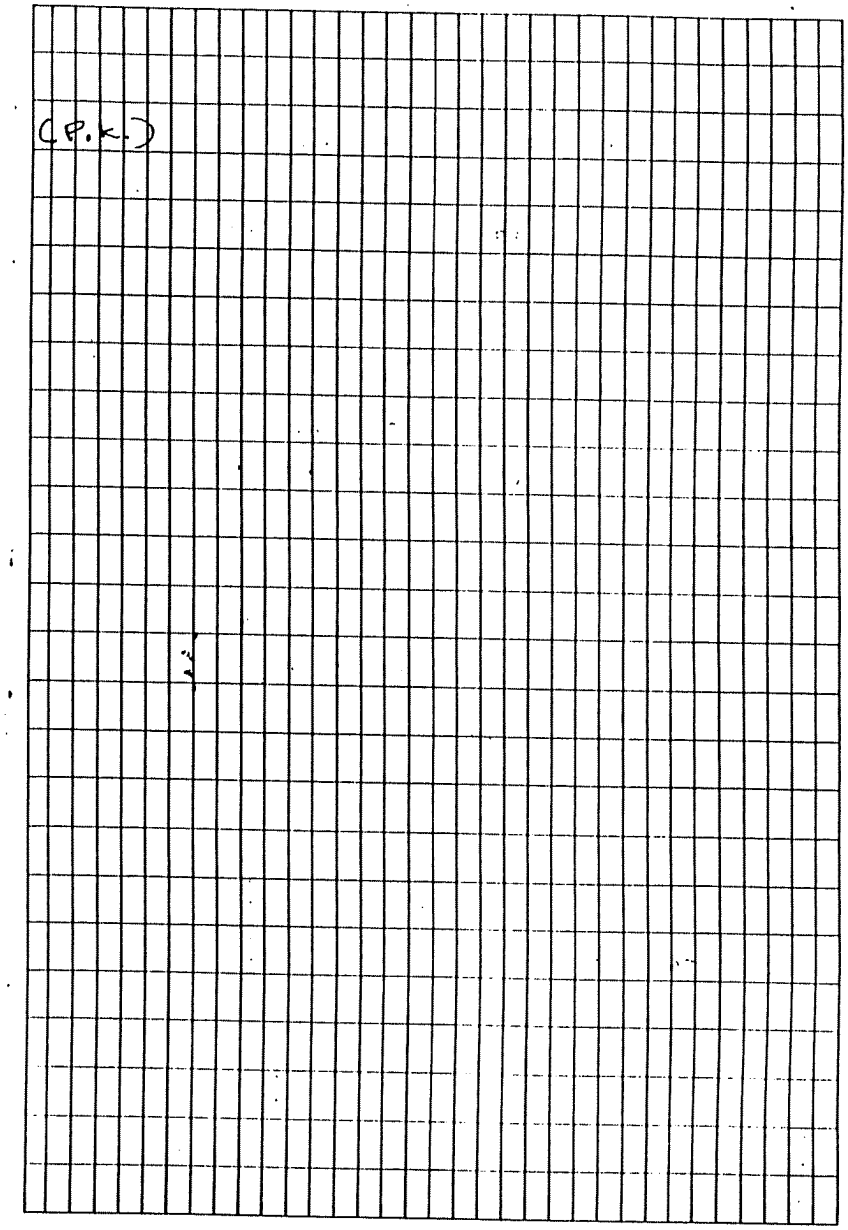
12/8/92 CONTROL

		T @ CP 9	BS. CP 8	
FS. (2)		221-34-48	41-34-48	
B.S.		00-00-00	180-00-00	
✓		221-34-48	221-34-48	
AVG ✓				
F.S.		311-34-48	131-34-45	
B.S.		90-00-00	270-00-00	
✓		221-34-48	221-34-45	
AVG ✓				
		221-34-47		
B.S VERT			FT.	M
1)	90-03-06		1436.420	437.821
2	269-57-00			
✓				
F.S VERT			FT.	M
1)	92-47-42		541.545	165.064
2	267-12-42			
✓				

KR
KH

SNOW 30° (28)

(P.K.)



SKW ALLOYS

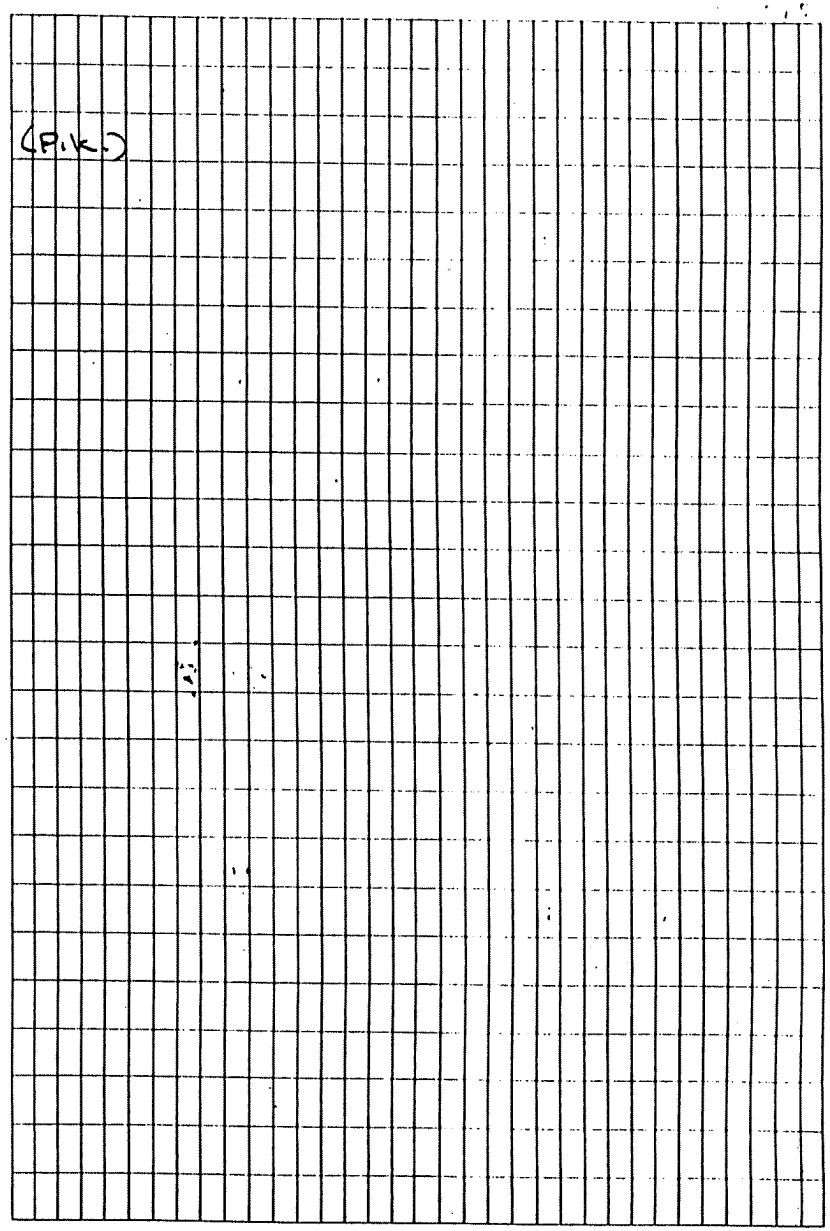
KR
KH

SNOW 30°

(29)

12/8/92		CONTROL		
		⊼ @ CP	2 B.S @ P ⊙	
F.S. ①	82-19-18		262-19-18	
B.S.	00-00-00		180-00-00	
±	82-19-18		82-19-18	
AVG ±				
F.S.	172-19-18		352-19-18	
B.S.	90-00-00		270-00-00	
±	82-19-18		82-19-18	
AVG ±				
		82 19 18		
B.S VERT			FT.	M
D	87-14-12		541.535	165.060
R	272-46-12			
⊼				
F.S VERT			FT.	M
D	90-12-18		454.765	138.613
R	269-47-54			
⊼				

(P.I.K.)



SKW ALLOYS

12/9/92 — LEVELS

				606.02 ✓
2.60	608.62			
		7.05	601.57	
1.47	603.04			
		9.35	593.69	593.685
5.67	599.36			
		4.24	595.12	595.113
5.81	600.93			
		0.43	600.50	600.490
4.50	605.00			
		5.05	599.95	599.938
1.86	601.81			
		6.69	595.12	595.106
6.22	601.34			
		4.50	596.84	
15.85	612.69			
		1.20	611.49	
10.17	621.66			
		2.86	618.80	618.778
12.31	631.11			
		1.34	629.77	629.746
1.17	630.94			
		12.13	618.81	—
2.83	621.64			

ILR
KH

CLOUDY 32°

(30)

SITE BM FOR WITMER ROAD SITE (PG 1 PK 83)

TP

CP 3

SITE BM 1 R.R. SPIKE IN POLE NUM 3

CP 4

CP 5

CP 6

TP

TP

CP 7

CP 8

CP 7

SKW ALLOYS

CLOUDY 30°

(31)

19/32		LEVELS			
		621.64			
			10.13	611.51	
	1.07	612.58			
			14.69	597.89	597.859
	3.30	601.19			
			6.06	595.13	—
	6.40	601.53			
			1.57	599.96	—
	8.40	608.36			
			0.88	607.48	
	16.54	~~624.02~~ 625.02			
			0.21	623.81	
	10.50	634.31			
			3.39	~~623.02~~ 630.42	630.877
	0.35	631.27			
			13.57	617.70	
	0.72	618.42			
			14.04	604.38	
	4.60	608.98			
			2.91	606.07	606.02 ✓
				+0.05 ✓	
				✓B/M	
				21 turns	
				ADJ =	−0.00238

KH

TP

SITE B.M 2 N.E COR. OF EAST HEAD NEAR GATE BETWEEN SKW & AICO PROPERTIES.

CP 6

CP 5

TP

TP

CP 4

TP

TP

SITE B.M (CP 1 BK 83)

SKW ALLOYS

12/10/92 LOCATIONS

KR
KH

SNOW 30°

HI = 5.20 ⊼ @ CP3 B.S. CP 4 w/00-00-00

	HORIZ ∢	VERT ∢	SD	ROD	DESC.
	00 00.00	88 58.12	406.59	5.72	CP 4
	312.19.00	88.56 36	364.80		ED. RD.
	308.45.18	89.02.42	215.74		" "
	242.20.54	89.58.36	33.12		" "
	147.09.06	90.30.06	188.52		" "
	142.27.00	90.22.12	375.94		" "
					BREAK
	138.47.24	90.22.36	376.12	5.72	ED RD.
	139.47.12	90.26.12	195.76		" "
	214.12.24	90.19.54	7.78		" " @ ED BT DR.
	322.49.06	88 03.00	10.76		ED. DR
	07.24.00	88.42.24	18.84		" "
	35.39.30	89 07.42	27.50		" "
	55.35.30	89 20.00	40.18		" "
	36.35.48	89 20.18	73.70		" "
	68.01 30	89 21.54	139.64		" "
	59.30 12	89.12 00	156.16		" "
	76.30.00	89 09.00	145.60		" "
	60 02 30	89.14.54	137.20		" "
	53.12.36	89.13.06	117.48		" "
	18.47.42	88 58.48	126.00		" "
120	43.55.26	83.56 06	116.88		" "

SKW ALLOYS

12/10/92		LOCATIONS			
HZ = 5.20		↑	@ CP3	B.S. CP 4	N100-00-00
	HORIZ ∠	VERT ∠	SD	ROD	
121	47-16-00	89-10-36	107.72	5.72	
	14-53-06	89-22-36	84.48	↓	
	09-42-24	89-10-00	189.08	↓	
	358-33-48	89-20-48	104.10	5.72	
	354-31-42	87-43-36	121.38	8.99	
	358-59-42	89-14-42	118.40	5.72	
	358-33-54	89-11-36	113.98	↓	
	345-28-30	89-08-00	119.26	↓	
	329-16-18	89-05-12	72.94	↓	
	321-13-30	89-09-00	73.24	↓	
	312-20-24	89-12-48	85.38	↓	
	315-21-12	89-03-36	228.52	↓	
	316-03-12	88-58-30	559.26	↓	
	318-08-36	88-51-06	320.18	↓	
	319-24-18	89-06-18	125.84	↓	
	341-24-12	85-50-12	9.38	↓	
	135-36-30	90-01-54	109.56	↓	
	136-38-12	90-20-06	241.50	↓	
139	136-51-00	90-20-36	243.20	↓	

KR
KM

SNOW 30° (33)

DESC.
ED. BIT OL
" " "
" " "
BREAK
ED. BIT OL.
" " "
" " "
" " "
" " "
" " "
" " "
" " ED. RD.
ED. RD.
" "
POLE NM 75 NYT 12
POLE NM 74 NYT 11
POLE NM 73 NYT 10 (SITE BM)
POLE NYT 9 NM 72
POLE NYT 8 NM 71
POLE NYT 7 NM 70

SKW ALLOYS

12/10/02

LOCATIONS

KR
KN

SNOW 3.00

⊼ @ CP 3 B.S. CP4 W/00-00-00

HI=5.20	HORIZ ∠	VERT ∠	SD	ROD	DESC.
140	323-49-54	88-45-18	183.16	5.72	COR. CLF.
	334-11-18	88-40-24	156.70	5.77	COR. CLF
	337-14-36	87-21-12	130.64	8.99	ANGLE CLF.
	358-18-18	89-[illegible]-42	115.80	5.72	GATE POST.
	08-29-30	89-20-00	114.58	↓	" "
	12-10-54	89-21-18	115.08		END CLF. @ BLDG.
	60-16-18	89-29-36	158.72		BEG CLF.
	79-30-00	89-40-18	134.72		COR CLF
	81-23-00	90-13-54	141.86		GATE POST.
	82-55-30	90-02-24	162.80	↓	" "
	84-00-48	89-53-36	181.80	3.00	COR. CLF
	96-39-12	89-[illegible]-24	221.80	5.72	CLF POST
	60-14-02	89-29-48	158.72	↓	COR. [illegible]
	38-26-00	89-26-00	100.66		" "
	33-51-30	89-21-36	175.60		" "
	29-43-00	89-24-30	121.30		" "
	29-19-36	89-24-36	[illegible]		" "
	[illegible]-55-12	89-21-00	11[illegible]-36		" "
	[illegible]	89-22-2[illegible]	11[illegible].26		" "
159	[illegible]	[illegible]	100.98	↓	" "

SKW ALLOYS

12/10/02 — LOCATIONS

HI = 5.20 — ℄ @ CP3 B.S. CP4 W/00-00-00

	HORIZ ∠	VERT ∠	SD	ROD
160	339.22.54	88.40.12	156.36	5.72
	355.20.30	87.50.06	136.04	5.72
162	359.05.24	90.10.36	212.06	5.72

HI = 5.26 — ℄ @ CP4 B.S. CP5 W/00-00

	HORIZ ∠	VERT ∠	SD	ROD
—	00.00.00	90.01.00	499.00	5.72
163	89.29.00	87.11.36	201.92	21.50
	120.35.30	92.05.12	121.04	5.72
	158.50.48	90.32.51	198.30	5.72
	142.07.06	91.15.48	149.78	
	135.24.18	91.35.00	166.20 ~~154.96~~	
	210.19.12	89.49.25	173.50	
	103.15.36	93.00.18	68.12	
	19.12.42	91.30.06	122.06	
	343.31.42	90.25.36	165.00	
	319.09.54	88.30.12	308.44	
177	00.06.06	90.11.54	221.89	

SNOW 300 (35)

KE
KN

DESC.
COR. BLOCK
" "
" "

DESC.
CP5
COR. BLOCK
COR. BLOCK
BREAK
COR. BLOCK
ED. DR.
℄ 20' DR ℄ ∈ 20' DR.
℄ 20' DR. (SIDE)
℄ 10' DR (MAIN)
" " " @ ℄
∈ 8' DR
℄ 8' DR.
BREAK
℄ 20 DR.

SKW ALLOYS

12/10/92 — LOCATIONS

HT = 5.26 — T @ CP4 — BS. CP5 W100-00-00

	HORIZ ∠	VERT ∠	SD	ROD
174	308 36 00	89 50 00	361.38	5.72
	288 36 12	89 51 06	497.00	
	275 29 30	89 29 06	605.94	
	252 02 54	89 33 12	555.00	
	150 52 24	92 00 54	72.50	
	12 57 30	91 39 06	66.90	
	17 12 48	90 56 54	213.86	
	28 20 00	89 32 12	279.36	12.48
	35 19 48	88 34 18	367.80	18.74
	65 14 12	91 22 00	176.34	5.72
	39 38 30	90 50 30	180.18	
	19 39 00	90 12 24	216.90	
186	06 47 00	90 59 00	265.78	

KR
KH

SNOW 30° (36)

DESC.
BOTTOM LANDFILL (SKEW)
"
"
COL. C.L.F.
POLE
POLE
POLE
POLE
COR. BLDG.
POLE
POLE
POLE
POLE

SKW ALLOYS

12/11/92		LOCATIONS			
HI = 5.35	⊼	@ CP 5	BS. CP	4 W 00-00-00	
	HORIZ ∠	VERT ∠	SD	ROD	
	00-00-00	89-53-48	498.96	5.72	
187	20-14-42	90-59-36	180.52		
	325-09-24	91-32-48	108.92		
	270-20-36	91-16-06	228.02		
	261-53-54	91-19-09	244.78		
	251-26-12	91-26-12	244.24		
	216-27-12	91-22-06	255.08		
	307-25-42	90-55-48	208.32		
	301-30-00	90-48-36	217.50		
	290-15-42	90-12-00	405.20	8.99	
	289-42-42	91-02-48	202.04	5.72	
	291-08-24	90-59-36	193.84		
	01-43-06	92-06-12	113.34		
	01-34-00	91-03-12	173.02		
	26-59-18	92-18-36	112.06		
	22-01-00	92-21-48	111.26		
	33-45-36	89-05-54	106.00	12.48	
	31-52-30	92-13-42	92.26	5.72	
	41-20-06	92-16-00	92.92		
	41-07-12	91-18-30	120.06		
206	32-19-12	88-22-12	129.12	12.48	

KR
KH

SNOW 32°

(37)

DESC.
CP 4
@ 20° DC
" " "
" " "
" " "
" " "
" " "
COR. BLOCK.
" "
C.L.F POT
MWL
MWL
MWL
POLE
POLE
COR. BLOCK.
" "
" "
" "
" "
" "

SKW ALLOYS

12/14/92 (95 struck through)

LOCATIONS

KR
KH

HI = 5.38   ⊼ @ CP5 BS CP4 W/00-00-00

	HORIZ ∡	VERT ∡	SD	ROD	DESC
	00-00-00	89-32-00	409.17	8.89	CPA
207 ~~350~~	79-21-42	91-39-36	117.40	5.62	LT 101-92
	39-48-48	86-27-12	298.46	25.20	BOTTOM OF LANDFILL (SKW)
	56-52-00	90-28-00	277.66	5.62	" " "
	91-25-00	90-05-42	321.96	↓	" "
	97-51-24	88-21-12	346.12	↓	℄ 18 PKT DR
	96-47-42	89-34-42	280.74	↓	℄ 18 " "
	86-08-54	90-35-00	200.78	↓	℄ 18 " "
	46-21-42	91-00-54	165.38	↓	℄ 18 " "
	107-15-06	90-40-12	220.34	↓	DEBRIS PILE
	101-12-42	89-20-24	317.66	↓	" "
	104-54-24	87-00-06	419.58	25.20	" " WOOD CHIPS
	113-50-54	81-53-24	492.66	25.20	" " COAL FINES
	119-53-00	90-11-18	453.18	5.62	" "
	119-47-00	90-18-12	371.54	↓	" "
	126-05-00	90-29-36	332.30	↓	" "
	112-13-00	90-48-48	215.08	↓	" "
223	151-28-24	90-39-24	289.34	↓	MW

12/14/92

SKW ALLOYS

LOCATIONS

KR

E.H.

SUNN / 35° (39)

HI = 5.06

⊼ @ CPU 8.5 CPS W/ 00.00

	HORIZ ∠	VERT ∠	SD	ROD	
	00·00·00	89·28·12	584.47	5.62	DESK
224	335 57 36	90 09 24	333.80	↓	CPS
	333 15 36	90 18 00	161.54		E 20' DR
	163 59 12	89 20 42	86.68		E 20' DR
	159 14 36	89 42 42	469.62		E 20' DR
	161 49 12	88 45 42	479.84	18.64	E 20' DR
	159 21 18	89 38 36	477.80	5.62	C.L.F. INT.
	151 08 18	89 43 00	477.58	↓	GATE POST
	140 47 48	89 43 00	479.72		" "
	129 19 24	89 25 24	544.40		C.L.F.
	119 55 36	89 30 06	482.06		" Angle
	111 39 18	89 29 24	441.10		"
	99 12 48	89 08 48	380.04	8.89	"
	77 31 30	89 39 30	479.26	5.62	"
	69 54 06	88 58 36	593.70	8.89	"
	68 51 00	89 03 36	1027.18	8.89	"
	82 01 00	89 04 36	449.24	8.89	~~SOR~~ C.L.F INT
	81 42 18	89 01 00	452.70	8.89	MW 13 ~~18~~ 13
	47 04 18	88 45 18	190.70	5.62	MW 18A 18A
	03 02 18	90 08 00	72.94	↓	WK 10A
243	321 17 18	90 25 48	161.02		50/5W 106
					50/5W 102

SKW ALLOYS

12/14/92 LOCATIONS

Sunny 35° (40)

HI = 5.17 ⊼ @ CP9 BS CP2 N/W ... ∞

	HORIZ ∡	VERT ∡	SD	RVI	DESC
	00 00 00	92 43 18	541.54	5.62	CP 2
244	25 28 06	92 08 54	64.16	5.62	LT 103 - 92
	179 23 42	90 31 42	252.62	5.62	LT 102 - 92
	136 64 30	90 25 12	367.84	30.20	BOTTOM OF LANDFILL (SKW)
	173 51 48	92 26 18	372.86	15.36	"
	120 40 54	93 23 12	292.12	12.08	"
	114 40 48	93 35 12	215.36	15.36	"
	86 43 24	91 00 18	264.34	25.20	"
	49 56 30	91 43 48	190.76	25.20	"
	352 32 48	91 17 36	266.20	25.20	"
	353 27 12	91 04 48	319.70	↓	MW
	352 30 48	91 02 12	328.82	↓	MW
	94 51 48	90 39 36	358.82	↓	MW
	24 40 18	92 03 18	66.76	5.62	LEACHATE COLLECTION STATION (24" RCP STICKING OUT OF GROUND)
	140 51 30	90 34 54	179.28	↓	"
	137 21 18	90 23 06	269.12	↓	"
	179 05 18	90 33 24	255.44	↓	"
	200 52 48	89 47 54	171.38	8.89	"
261	199 36 48	81 40 48	38.40	5.62	"

SKW ALLOYS

12/19/92 — LOCATIONS

HT = 5.17 — ⊼ @ CP9; B.S. CP2 W 00 00 00.00

	HORIZ ∠	VERT ∠	SD	COD
262	351-19-42	92-15-00	183.10	5.62
	88-20-30	92-32-18	189.96	
	124-18-00	93-10-12	148.24	
	133-39-06	91-09-30	294.26	
	167-46-30	90-38-00	345 00	
	191-21-06	91-45-48	254.26	
268	254-59-12	91-54-06	284.90	

12/15/92 — ⊼ @ CP 7; B.S. 4P6 W 00 00 00.00

HT = 5.08

	HORIZ ∠	VERT ∠	SD	ROD
	00 00 00	91-49-18	790.52	5.62
269	328-31-06	90-06-24	419.68	25.20
	328-31-36	90-13-12	410.26	
	325-09-12	90-22-48	379.24	
	321-46-06	90-10-54	332 50	
	326-37-36	88-10-30	247.12	
	352-34-30	90-15-48	272 40	
	11-38-12	89-21-48	213.84	
	29-01-36	92-18-18	393 18	5 62
	32-35-18	91-45-36	507.52	5.62
278	48-47-30	89-39-42	706 48	25 20

HP
KH

SUNNY 35°

DESC
TOP EDGE LANDFILL.
" " "
" " "
" " "
" " "
" " "
" " "

DESC
CP6
SITE BM. 2
420' DR
" " "
" " "
" " "
SW|SD|04
BOTTOM OF LANDFILL (AREA)
" " "
" " "
" " "

12/15/92

SKW ALLOYS

LOCATIONS

K2
KH

CLOUD 1 32°

42

HI = 5.08 ⊼ @ CP 7 BS. CP6 W/ 00-00-00

	HORIZ ∠	VERT ∠	SD	ROD	DESC
279	132-11-30	90-24-06	53.88	5.62	WT 103
	330 34 00	90-12 42	314.72	25.20	BOTTOM OF LANDFILL
(301)	303 46-18	90-14-36	350.98	↓	" " "
	276-33-54	90-06 54	365.06		" " "
	251-50-48	89-47-42	429.26		MW 1 MW 1
284 (284)	251-05-42	89-54-12	434.50	↓	MW 1A MW 1A

HI = 4.72 ⊼ @ CP 8 B.S. CP 7 W/ 00-00-00

	HORIZ ∠	VERT ∠	SD	ROD	DESC
285	00-00-00	91-24-24	409.34	5.62	CP 7
	36-56-06	90 33 42	524.74	↓	WT 101
	58 22-06	91-23-18	957.50		BOTTOM OF LANDFILL
	68 09-00	91-22-54	797.94		" " "
	76 26-30	91-39-36	648 82	↓	" " "
	87-33-48	89 58 54	570.28	25.00	MW 4
	87-01-36	90-01-06	579.40	25.20	MW 4A 4A
	96-11-30	92 18-48	439.36	5.62	BOTTOM OF LANDFILL
	103-10-00	92-31-06	372.28	↓	" " "
	116-34-24	96-05-42	121.66		" " "
	264 02 42	95-51-24	232.60		" " "
	265-19-18	94-36-12	344.96 349.56	344.96	50/SW 101
296	267-53-00	93-14-48	468.70	↓	MW 2

SKW ALLOYS

12/15/82 LOCATIONS

PART/CLOUDY 32° (43)

KE
HH

HI = 4.72 ⊼ @ CP 8 BS CP7 W100-00

	HORIZ ∡	VERT ∡	SD	ROD	DESC
297	267.43.00	93.14.06	476.98	5.62	MW 2A
	275-01-00	92.43.30	611.42	5.62	BOTTOM OF LANDFILL
	218.43.00	90.49.24	677.12	25.20	" " "
	272.24.00	91.52.36	826.10	8.89	COR. C.L.F.
	267.49.54	92.09.30	815.48	5.62	SW150 103
	135-05.42	94.48.06	268.40		WT 105
	113-28.00	93.04.12	495.72		COR. C.L.F.
	180 04.24	91.00.42	781.40		WT 107 (107 IS UNDER POWER LINES, LINES RUN EAST & WEST FROM THERE)
305	43.30.24	93.35.54	134.00		WT 102

SKW ALLOYS
SITE SKETCH
NOT TO SCALE
STORAGE
STORAGE
WITMER ROAD

New York State Department of Environmental Conservation

SUPERFUND STANDBY CONTRACT
Task Order Memorandum 'C'

PRELIMINARY SITE ASSESSMENT NO. 6

SKW ALLOYS, INC.

ADDENDUM TO CONTROL REPORT

JANUARY 1993

OM P. POPLI, P.E.,L.S.,P.C.
Consulting Engineers & Land Surveyors
44 Saginaw Drive
Rochester, NY 14623
(716) 442-6940

INTRODUCTION

I. INTRODUCTION

The information contained herein supplements the SKW Alloys, Inc. Survey Control Report of December 1992. Enclosed are additional coordinate outputs and field notes of sample areas that could not be located due to the heavy snowfall at the time the field locations were obtained.

This information can be inserted into the original control report and can be regarded as final.

COORDINATE AND ELEVATION SUMMARY

TOE Name : SKN-TOPO

FINAL 1-20-93 (ADDED TOPO)

Point	Northing	Easting	Elevation	Description
1	5000.0000	5000.0000	100.0000	START
101	1138309.9341	380051.6657	599.8924	EP
102	1138693.0766	379957.5510	596.7608	EP
103	1138533.2825	379829.5875	593.1785	EP
104	1138381.8028	379707.8545	591.5144	EP
105	1138235.4959	379588.7022	590.7373	EP
106	1138219.2844	379606.4217	590.6924	EP
107	1138359.2678	379720.2451	591.6731	EP
108	1138509.9345	379842.1539	593.1200	EP/EDGE DR
109	1138514.2884	379856.6586	593.5311	EDGE DR
110	1138506.9636	379868.0004	593.5902	EDGE DR
111	1138494.0602	379873.6550	593.5834	EDGE DR
112	1138477.1883	379876.5710	593.6325	EDGE DR
113	1138471.9698	379914.2362	594.0161	EDGE DR
114	1138386.3247	379920.1461	594.7126	EDGE DR
115	1138385.1212	379947.3073	595.3453	EDGE DR
116	1138398.5401	379946.7601	595.3249	EDGE DR
117	1138399.2838	379934.6677	594.9649	EDGE DR
118	1138424.0657	379932.7863	594.7677	EDGE DR
119	1138425.2537	379945.3900	595.4080	EDGE DR
120	1138439.3597	379943.9904	605.5141	EDGE DR
121	1138439.2662	379933.2599	594.7129	EDGE DR
122	1138497.3137	379933.1355	594.0841	EDGE DR
123	1138502.9950	380033.1951	595.8422	EDGE DR
124	1138540.4788	380040.8812	595.3851	EDGE DR
125	1138536.0462	379966.8177	594.7097	EDGE DR
126	1138526.3116	379965.9017	594.7251	EDGE DR
127	1138526.4173	379961.3968	594.7697	EDGE DR
128	1138553.3912	379958.8397	594.9689	EDGE DR
129	1138552.7856	379905.5886	594.3277	EDGE DR
130	1138560.4497	379898.7680	594.2515	EDGE DR
131	1138577.4338	379896.7810	594.3372	EDGE DR/EP
132	1138689.6253	379985.9120	596.9140	EP
133	1138791.6984	380067.6389	599.5917	EP
134	1138753.4109	380053.0102	599.0230	PP NM75 NYT12
135	1138601.8032	379931.4051	595.1306	PP NM74 NYT11
136	1138510.8461	379857.4908	593.8460	PP NM73 NYT10 BM
137	1138419.0901	379783.2116	593.0088	PP NYT9 NM72
138	1138316.3825	379700.3457	591.7530	PP NYT8 NM71
139	1138237.0801	379636.6687	591.1085	PP NYT7 NM70
140	1138635.5147	379979.1899	597.1446	COR CLF
141	1138595.0892	379978.4222	596.7930	COR CLF
142	1138574.4662	379960.6175	595.9275	< CLF
143	1138527.2509	379963.0937	594.9603	GATE POST
144	1138506.7913	379963.7413	594.4982	GATE POST
145	1138499.3692	379964.0164	594.4605	END CLF@BLDG
146	1138382.0537	379947.5839	594.5685	BEG CLF
147	1138379.2633	379893.2371	593.5843	COR CLF
148	1138365.3326	379892.9170	592.5672	GATE POST
149	1138349.8208	379893.1364	593.0513	GATE POST
150	1138330.6261	379894.9340	596.2235	COR CLF
151	1138284.9244	379856.6770	596.5586	CLF
152	1138382.1185	379947.6660	594.5593	COR BLDG
153	1138452.0094	379944.2857	594.2495	COR BLDG
154	1138452.9834	379962.7576	594.3487	COR BLDG
155	1138462.8599	379962.3127	594.4176	COR BLDG
156	1138462.9868	379964.3097	594.4328	COR BLDG
157	1138485.7106	379963.6365	594.4850	COR BLDG
158	1138486.0056	379959.5226	594.3928	COR BLDG

159	1138499.1010	379958.8883	594.3455	COR BLDG
160	1138594.3861	379978.4900	596.7942	COR BLDG
161	1138537.7333	379981.4924	595.0342	COR BLDG
162	1138541.5810	380052.3045	595.6570	COR BLDG
163	1138392.0865	380151.2529	594.1372	COR BLDG
164	1138508.3942	380145.4635	595.6228	COR BLDG
165	1138598.4676	380055.2776	598.1351	COR BLDG
166	1138541.2591	380058.1232	595.7356	EDGE DR
167	1138525.9900	380090.1893	595.4378	CL 20'DR/CL 20DR
168	1138683.7359	380209.9081	600.4102	CL 20'DR SIDE
169	1138517.9325	380204.3235	596.3402	CL 20'DR MAIN
170	1138474.6583	380330.5031	596.8313	CL 20'DR @ CL
171	1138528.1718	380411.3916	598.8013	CL 18'DR
172	1138624.2479	380554.1375	608.0861	CL 18'DR
173	1138455.4126	380442.6317	596.9391	CL 20'DR
174	1138698.0313	380528.0126	601.0812	BOT.LANDFILL
175	1138861.7615	380587.4180	601.1872	BOT.LANDFILL
176	1139059.4553	380604.5556	605.4764	BOT.LANDFILL
177	1139110.2601	380368.9114	604.3613	COR CLF
178	1138568.6596	380178.6628	597.4808	POLE
179	1138521.5741	380299.8915	598.1017	POLE
180	1138409.8927	380395.8232	596.4904	POLE
181	1138329.0560	380396.9538	595.5291	POLE
182	1138232.6678	380403.4443	596.1780	COR BLDG
183	1138391.9640	380232.8915	595.8242	POLE
184	1138398.2832	380313.4563	597.3833	POLE
185	1138401.5491	380390.9684	597.3549	POLE
186	1138407.4690	380463.3998	595.4688	POLE
187	1138455.4803	380567.4832	596.4385	CL 20'DR
188	1138307.5044	380573.9179	596.6281	CL 20'DR
189	1138119.9848	380566.6127	594.5208	CL 20'DR
190	1138089.5822	380590.4040	593.9327	CL 20'DR
191	1138077.1804	380633.2177	593.4444	CL 20'DR
192	1138082.2137	380783.5237	593.4768	CL 20'DR
193	1138237.0303	380489.8335	596.1868	COR BLDG
194	1138213.2055	380490.9667	596.4933	COR BLDG
195	1138058.3494	380369.9808	594.8836	CLF POT
196	1138186.2279	380527.9090	595.8774	MW
197	1138195.2406	380531.1129	596.2076	MW
198	1138376.2036	380586.2948	595.4082	MW
199	1138407.3870	380535.3535	596.3622	POLE
200	1138410.4289	380621.7558	595.0513	POLE
201	1138410.9236	380624.0454	594.9801	COR BLDG
202	1138411.5534	380635.9012	594.4761	COR BLDG
203	1138403.0459	380636.4657	594.8908	COR BLDG
204	1138403.8343	380651.5024	595.0829	COR BLDG
205	1138431.8947	380650.0077	596.8267	COR BLDG
206	1138430.8303	380622.8698	596.4433	COR BLDG
207	1138426.9125	380721.7191	596.2971	LT 101-92
208	1138596.2666	380580.5900	598.5812	BOT.LANDFILL
209	1138593.6161	380668.2005	597.4365	BOT.LANDFILL
210	1138590.5221	380851.1914	599.1642	BOT.LANDFILL
211	1138588.4047	380896.1590	609.6440	CL 18'DIRT DR
212	1138540.5671	380851.3443	601.7641	CL 18'DIRT DR
213	1138496.2527	380771.5269	597.6539	CL 18'DIRT DR
214	1138477.1532	380643.9939	596.7684	CL 18'DIRT DR
215	1138476.2935	380833.9489	597.1215	DEBRIS PILE
216	1138554.5758	380892.5202	603.3571	DEBRIS PILE
217	1138612.0934	380979.2397	602.0649	DEBRIS PILE
218	1138605.4210	381080.9517	598.2568	DEBRIS PILE
219	1138542.3922	381075.2071	598.2084	DEBRIS PILE
220	1138505.0277	381002.4892	597.7310	DEBRIS PILE
221	1138450.0154	380986.6495	596.8368	DEBRIS PILE

222	1138447.5169	380852.8519	596.6450	DEBRIS PILE
223	1138307.9145	380971.6385	596.3819	MW
224	1138090.6204	380896.0209	593.6333	CL 20'DR
225	1138093.2779	381068.6085	593.7002	CL 20'DR
226	1138103.4903	381315.6243	595.3100	CL 20'DR
227	1138111.4976	381698.8419	596.9093	CL 20'DR
228	1138089.9520	381708.5130	591.3960	CLF INT.
229	1138110.5843	381707.0197	597.5203	GATE POST
230	1138129.0560	381706.4413	596.9077	GATE POST
231	1138269.6910	381703.1088	597.0181	CLF
232	1138383.0295	381700.4528	600.0251	CLF
233	1138421.6000	381598.5932	598.7465	CLF
234	1138436.7788	381526.0040	598.4723	CLF
235	1138440.0709	381418.3338	596.9359	CLF
236	1138584.8724	381297.2208	597.4039	CLF
237	1138704.0481	381234.7487	601.8792	CLF
238	1139137.4828	381221.7204	608.1273	CLF INT
239	1138548.7506	381327.5805	598.5153	MW 13
240	1138552.6510	381325.9324	599.0450	MW 13A
241	1138286.8678	381156.8923	598.6895	WT 104
242	1138139.7509	381162.4251	594.3763	SD/SW 106
243	1138076.7701	381071.7793	593.3376	SD/SW 102
244	1138959.7408	380787.9442	628.0256	LT 103-92
245	1138713.5128	380978.5521	628.0976	LT 102-92
246	1138869.0703	381173.1580	603.1506	BOT.LANDFILL
247	1138954.0139	381179.9154	604.6113	BOT.LANDFILL
248	1138957.3183	381092.1165	606.7103	BOT.LANDFILL
249	1138963.6157	381011.3182	606.9644	BOT.LANDFILL
250	1139087.3001	380991.4174	605.5186	BOT.LANDFILL
251	1139087.4656	380831.7842	605.0830	BOT.LANDFILL
252	1139070.3365	380603.3052	604.8386	BOT.LANDFILL
253	1139108.7285	380565.7448	604.8212	MW
254	1139111.2945	380555.9151	604.8979	MW
255	1139116.6968	381091.3107	606.7138	MW
256	1138962.0483	380786.2759	627.9360	LEACHATE COLLECT
257	1138871.8686	380983.7904	628.6070	LEACHATE COLLECT
258	1138874.8714	381074.5818	628.6187	LEACHATE COLLECT
259	1138712.3827	380981.4704	627.9453	LEACHATE COLLECT
260	1138738.9594	380869.1572	627.7602	LEACHATE COLLECT
261	1138863.0818	380821.3178	631.9815	LEACHATE COLLECT
262	1139013.6285	380664.3300	623.2385	TOP EDGE LANDFLL
263	1139030.2592	380943.0596	622.0141	TOP EDGE LANDFLL
264	1138919.1341	380953.0695	622.2295	TOP EDGE LANDFLL
265	1138891.6542	381100.6259	624.4784	TOP EDGE LANDFLL
266	1138698.3810	381087.5257	626.6135	TOP EDGE LANDFLL
267	1138680.5702	380937.2879	622.6031	TOP EDGE LANDFLL
268	1138658.7637	380652.8276	620.9728	TOP EDGE LANDFLL
269	1138111.7601	381713.8069	597.8767	SITE BM 2
270	1138119.8272	381718.6757	597.0827	CL 20'DR
271	1138135.1915	381754.2518	596.1428	CL 20'DR
272	1138175.3661	381778.2455	597.6038	CL 20'DR
273	1138254.8941	381810.9954	606.5280	CL 20'DR
274	1138315.5278	381708.3597	597.4060	SD/SW 104
275	1138412.8840	381726.7926	601.0341	BOT.LANDFILL
276	1138483.2893	381540.3096	602.4247	BOT.LANDFILL
277	1138518.7112	381428.0297	602.6506	BOT.LANDFILL
278	1138731.4631	381276.7570	602.8298	BOT.LANDFILL
279	1138521.6954	381947.0160	617.8603	WT 103
280	1138207.3227	381759.1222	597.4953	BOT.LANDFILL
281	1138126.0404	381861.5891	597.1674	BOT.LANDFILL
282	1138127.6986	382060.6498	597.9253	BOT.LANDFILL
283	1138137.0200	382204.2166	600.1939	MW 1
284	1138136.5887	382211.9233	599.3911	MW 1A

285	1138695.3812	381712.5152	623.7021	WT 101
286	1139008.2369	381314.2047	605.6471	BOT.LANDFILL
287	1139091.6905	381515.8991	609.6058	BOT.LANDFILL
288	1139108.3906	381696.9679	610.0507	BOT.LANDFILL
289	1139149.3873	381832.2296	609.4485	MW 4
290	1139152.4983	381821.9658	609.0806	MW 4A
291	1139099.8726	381975.0557	611.1115	BOT.LANDFILL
292	1139070.2937	382052.7842	612.4884	BOT.LANDFILL
293	1138862.2976	382201.6626	615.9285	BOT.LANDFILL
294	1138592.3870	382407.8720	605.1114	BOT.LANDFILL
295	1138512.0767	382486.8486	601.1606	SD/SW 101
296	1138412.6544	382563.2536	602.3013	MW 2
297	1138407.7363	382570.0453	601.9293	MW 2A
298	1138261.0920	382606.1410	599.7777	BOT.LANDFILL
299	1138182.9932	382610.9229	599.5362	BOT.LANDFILL
300	1138114.0641	382766.2300	598.5227	COR CLF
301	1138166.0536	382807.3135	598.1341	SD/SW 103
302	1139013.1253	382247.0590	606.3791	WT 105
303	1139166.7841	382089.8939	604.9750	COR CLF
304	1139272.6855	382811.8008	615.0496	WT 107
305	1138748.3795	382101.0740	620.4360	WT 102
306	1138316.2760	380682.5883	599.9049	CP5 CHK
307	1138053.5591	379569.0959	591.4016	MW 12
308	1138055.9425	379571.0083	591.5186	MW 12A
309	1138469.7896	381933.0458	618.7753	CP7 CHK
310	1138820.1306	382408.9311	618.7475	WT 106
311	1139619.6253	382535.3960	601.4336	SW/SD 105
312	1139135.1066	383047.2751	615.1469	WT 108

NEW LOCATION

FIELD NOTES

SKW ALLOYS

1/13/93 — ADD'L LOCATIONS

HI = 5.01 — T @ CP 6 — B.S. CP 5 W/00-00

	HORIZ	VERT	SD		ROD
306	00-00	89-28-10	584.125		5.62
307	337-24-20	89-25-53	1661.19		25.20
308	337-29-08	89-25-36	1659.20		25.20

HI = 4.64 — T @ CP 8 — B.S. CP 7 W/00

	HORIZ	VERT	SD		ROD
309	00-00	91-23-57	409.160		5.62
310	199-23-32	93-01-47	189.55		
311	151-27-08	91-41-40	924.35		
312	196-52-20	90-51-58	900.98		

CLOUDY 32°

KR
KH

66

FB 83

DESC.
CP 5
MW 12
MW 12A

DESC.
CP 7
WT 106
SW/SD 105
WT 108

SKW ALLOYS

1/14/93		ELEVATE MWs			
					597.89
	8.83	606.72			
			6.67	600.1	
			2.67	604.05	
			2.74	603.98	
	3.75	613.73			
			14.81	598.9	
			9.15	604.58	
			9.25	604.48	
	6.87	611.35			
			11.87	599.48	
	7.24	606.72			
			4.53	602.19	
	14.97	617.16			
			2.06	615.10	
	1.24	616.34			
			6.76	609.6	
			4.67	611.67	
			4.81	611.53	
	9.49	621.02			
			11.85	609.2	
			9.39	611.63	
			9.54	611.48	
	10.37	621.85			

KR
KH

CLOUDY 30° 67

FB83

BM 2 (PG 31)

MW1 GRD
" CASS
" RISER

MW1A GRD
" CASS
" RISER

TP

TP

TP

MW4 GRD
" CASS
" RISER

MW4A GRD
" CASS
" RISER

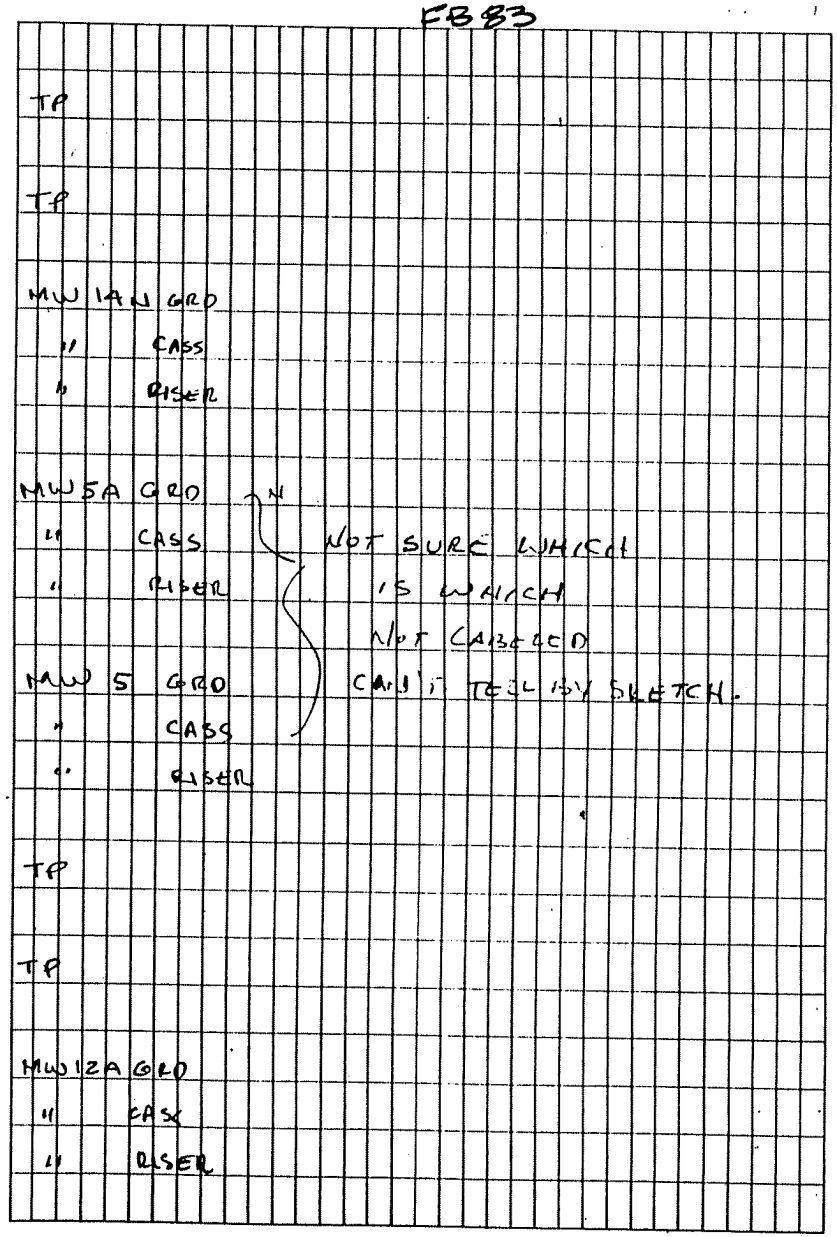
SKW ALLOYS

KR
KH

CLOUDY 30° 68

1/14/93		ELEVATE MW'S		
		621.85		
			7.83	614.02
	1.68	615.70		
			18.39	597.31
	3.71	601.02		
			1.53	596.5
			1.95	599.07
			2.77	598.25
	4.72	602.97		
			6.65	596.3
			3.93	599.04
			4.11	598.86
	4.14	603.00		
			7.04	596.0
			4.55	598.45
			4.69	598.31
	2.07	600.38		
			5.07	595.31
	4.16	599.47		
			6.78	592.69
	6.14	598.83		
			6.78	592.0
			4.10	594.73
			4.15	594.68
	4.03	598.71		

FB 83



SKW ALLOYS

KR
KH

CLOUDY 30°

FB 83

1/19/93		ELEVATE	MW'S		
		598 71			
			6.71	592.0	
			4.06	594,65	
			4.37	594.34	
	4.23	598..57			
			3.44	595.13	595.12
				+0.01	
					✓BM
					~~No Adj.~~

MW 12 GRD

" CASS

" USER

SITE BM 1 (PG 30)