US EPA RECORDS CENTER REGION 5
483711

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

Mark Besel, Supervisor
Program Support Unit
Division of Emergency and Remedial Response
Ohio Environmental Protection Agency
1800 WaterMark Drive
Columbus, Ohio 43266-0149

Site Name: Bendix Autolite Corp.
Location: Fostoria, OH
U.S. EPA ID: OHD064046228
Date: 1/10/90

Dear Mr. Besel:

Attached is a copy of the screening site inspection (SSI) work plan that has been prepared for the site listed above. This document is considered to be draft and is subject to changes and modifications based on actual conditions that may be encountered at the site. The SSI work plan also contains a preliminary estimate of the Hazard Ranking System (HRS) score for the site and a projected score based on specific assumptions as addressed in the work plan. This information is considered to be pre-decisional in nature and should not be released to outside parties. Please inform your field and district staff of the legal implications of releasing a pre-decisional HRS score relative to the National Priorities List (NPL) candidacy process and the need to keep this information confidential.

Because this work plan is a draft document, it should be for official use only and should not be distributed outside of your agency without the approval of the U.S. Environmental Protection Agency.

If you have any comments on the SI work plan, please contact the FIT State Coordinator at (312) 663-9415 and Jeanne Griffin, the Site Assessment Manager (SAM) at (312) 886-3007 within 10 working days. If we do not receive any comments, written or verbal, from you during the comment period, my staff will approve the work plan based on U.S. EPA's comments only.

Please contact Jeanne Griffin as early as possible in the comment period so that your agency's suggestions can be evaluated, and any modifications made to the SSI work plan. We welcome suggestions from you and your staff that will enhance the quality of the site inspection of this NPL candidate site.

Sincerely,

Bill Messenger

Bill Messenger, Chief
Pre-Remedial Unit

Enclosures
cc: Ohio Environmental Protection Agency

SCREENING SITE INSPECTION WORK PLAN
FOR
BENDIX AUTOLITE CORPORATION
ALLIED AUTOMOTIVE
U.S. EPA ID: OHD066046228
SS ID: NONE
TDD: F05-8706-233
PAN: FOH0620GA

JANUARY 9, 1990

Elements of this Screening Site Inspection Work Plan are considered confidential and pre-decisional in nature. Material and information contained within this report may not be released without the approval of the United States Environmental Protection Agency Region V Pre-Remedial Unit.

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

recycled paper

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Cardinal

WORK PLAN

INSPECTION WORK PLAN

THIS DOCUMENT IS CONFIDENTIAL. Due to the predecisional nature of this document, this document and its attachments are not to be released without prior approval of the United States Environmental Protection Agency (U.S. EPA).

This site inspection work plan (WP) has been prepared by Ecology and Environment, Inc., or its subcontractor, C. C. Johnson and Malhotra, P.C., under the field investigation team (FIT) contract with U.S. EPA (No. 68-01-7347).

The objectives of this WP are to:

- Prepare a preliminary Hazard Ranking System (HRS) score using HRS 1 (40 CFR 300, July 16, 1982) criteria based on existing file information (Part C of WP);
- Prepare projected HRS 1 scores based on experience and professional judgment (Part C of WP);
- Identify HRS 1 score data gaps (Part E of WP); and
- Propose site inspection activities to satisfy the HRS 1 score data gaps; technical approach and estimated LOE are provided (Parts E and I, respectively).

Unless otherwise stated, QA/QC protocol for site inspection activities is documented in the Quality Assurance Project Plan Region V FIT Conducted Site Inspections - May 1, 1987.

A. GENERAL INFORMATION

CERCLIS SITE NAME: BENDIX AUTOLITE CORPORATION
ALSO KNOWN AS: ALLIED AUTOMOTIVE
FORMERLY KNOWN AS: —
ADDRESS: 1600 N. UNION ROAD
CITY: FOSTORIA
STATE: OHIO
COUNTY: SENECA
ZIP CODE: 44830
U.S. EPA ID: OHD066046228
SS ID: NONE
TDD: FOS 8706233
PAN: FOH0620GA

FIT USE ONLY

WORK PLAN TYPE: X SCREENING SITE INSPECTION (SSI) WORK PLAN

____ OTHER: _____

PREPARED BY: Mathew Joseph (FIT) DATE: NOVEMBER 17, 1989

(MATHEW JOSEPH, CCJM)

REVIEWED BY: Omprakash Patel (FIT) DATE: December 6, 1989

APPROVED BY: R. Kelly (FIT) DATE: Dec. 15, 1989

U.S. EPA USE ONLY

REVIEWED BY: _____ (U.S. EPA) DATE: _____

___ WORK PLAN APPROVED. Recommend issuance of TDD to implement the Work Plan.

___ WORK PLAN APPROVED. No Further Remedial Action Planned (NFRAP).

___ WORK PLAN REJECTED.

COMMENTS: _____

B. SITE INFORMATION

This section of the WP presents current and historical information pertaining to the site, including: site operations, storage/disposal methods, site property area, site status, owners and operators, permit information, and response/enforcement activities. A site location map is shown on Figure 1, located in Section 2.

1. Site Operations (past and present; check all that apply):

X	Aboveground storage	____	Mining site
____	Belowground storage	____	Open dump
____	Chemical manufacturer	____	Ore processor
____	Drum recycler	____	Physical/chemical treatment
____	Electroplater	____	Recycler/reclaimer
____	Foundry	____	Surface impoundment
____	Incinerator	____	Underground injection
____	Landfarm	____	Well field
____	Landfill	____	Wood preserver
____	Midnight dump	X	Other: MANUFACTURE OF SPARK PLUGS, AND OXYGEN SENSOR FOR AUTOMOBILES, AND SMALL ENGINES FROM CERAMIC AND METAL RAW MATERIALS.

References: 7 , 12 , 14 , 15 , 16 , 21

2. Storage/Disposal Methods (past and present; check all that apply):

		Waste Quantity (amount/units of measure)
X	Drums, aboveground	
____	Landfarm	
____	Landfill	
____	Open dump	
____	Piles	
____	Surface impoundment	
X	Tank, aboveground	
____	Tank, belowground	
____	Other:	

References: 7 , 12 , 15 , 16 , ____

3. Site Property Area: 9.2 (acres)

References: 7 , 21 , ____ , ____ ; ____

4. Site History/Description and Unusual Features: (see following page.)

References: 7 , 19 , ____ , ____ , ____

SITE HISTORY (Continued)

BENDIX AUTOLITE CORP PLANT MANUFACTURES SPARK PLUGS AND OXYGEN SENSORS, FOR PASSENGER AUTOMOBILES, AND FOR SMALL ENGINS. THE SPARK PLUGS ARE MANUFACTURED FROM RAW CERAMIC POWDERS AND STEEL BAR STOCK. THE CERAMIC MATERIAL IS FORMED, FIRED AND GLAZED. THE BAR STOCK IS MACHINED, COATED AND WASHED. THE CERAMIC AND METAL PARTS AND OTHER REQUIRED MATERIALS ARE THEN ASSEMBLED TO FORM THE FINAL PRODUCT.

THE WASTEWATER FROM THESE OPERATIONS DISCHARGES TO THE CITY OF FOSTORIA SANITARY SEWER SYSTEM THROUGH THREE OUTFALLS. SAMPLING OF INDUSTRIAL AND RESIDENTIAL WELLS NEAR THE FACILITY AREA HAS SHOWN TRICHLOROETHYLENE (TCE) AND OTHER VOLATILE ORGANICS IN THE GROUNDWATER. BENDIX USES TCE AS A SOLVENT IN ITS CLEANING PROCESSES. ALL HAZARDOUS WASTES ARE TRANSPORTED OFF-SITE TO AN EPA APPROVED FACILITY FOR DISPOSAL/TREATMENT. THERE IS NO ON-SITE TREATMENT, STORAGE (BEYOND 90 DAYS) OR DISPOSAL. IN THE PAST SOLVENTS WERE COLLECTED IN LARGE ABOVE GROUND TANKS, AS WELL AS IN DRUMS FOR SHIPMENT. CURRENTLY, ONLY DRUMS ARE USED FOR STORAGE.

5. Site Status: X Active _____ Inactive

References: 7, 21, _____, _____, _____

6. Owner/Operator History

Current Owner

Name: BENDIX AUTOLITE CORP
Address: P.O. BOX 5060
SOUTHFIELD
City, State, Zip Code: MI 48037

Years of Ownership: ~1960 – PRESENT

Current Operator

Name: BENDIX AUTOLITE CORP
Address: 1600 N. UNION ROAD
FOSTORIA
City, State, Zip Code: OH 44830

Type of Operation: MANUFACTURING
Years of Operation: ~1960 – PRESENT

Previous owners
(list most recent first)

Name: UNKNOWN
Address: _____
City, State, Zip Code: _____
Years of Ownership: _____

Name: UNKNOWN
Address: _____
City, State, Zip Code: _____
Years of Ownership: _____

Previous operators
(list most recent first)

Name: UNKNOWN
Address: _____
City, State, Zip Code: _____
Type of Operation: _____
Years of Operation: _____

Name: UNKNOWN
Address: _____
City, State, Zip Code: _____
Type of Operation: _____
Years of Operation: _____

References: 7, 12, 14, _____, _____

7. **Permit Information** — **Effective Date** — **Expiration Date**

___ NPDES
___ UIC
___ AIR
___ RCRA, ___ PART A ___ PART B
___ SPCC PLAN
___ STATE (specify): _____
___ LOCAL (specify): _____
___ OTHER (specify): _____
___ NONE
X UNKNOWN

References: _____, _____, _____, _____, _____

8. Response Activities (previous and current site remediation; check all that apply):

_____ Water supply closed	_____ Cutoff trenches/sump
_____ Temporary water supply provided	_____ Subsurface cutoff wall
_____ Permanent water supply provided	_____ Barrier wall constructed
_____ Spilled material removed	_____ Capping/covering
_____ Contaminated soil removed	_____ Bulk tankage repaired
_____ Waste repackaged	_____ Grout curtain constructed
_____ Waste disposed elsewhere	_____ Bottom sealed
_____ On-site burial	_____ Gas control
_____ In situ treatment	_____ Fire control
_____ Encapsulation	_____ Leachate treatment
_____ Emergency waste treatment	_____ Area evacuated
_____ Cutoff walls	_____ Access to site restricted
_____ Emergency diking/surface water diversion	_____ Population relocated

Other remedial and enforcement activities: BENDIX IS CONDUCTING AN RI/FS STUDY TO FIND OUT POTENTIAL MIGRATION OF TCE TO GROUNDWATER.

under State supervision ?

References: 23 , _____ , _____ , _____ , _____

9. Documented and Alleged Target Compounds

Documented and alleged target compounds are compiled in Table 1. The documented target compounds are supported by analytical data from previous sampling projects. The alleged target compounds are based on the history of site operations and professional judgment. Documented and alleged target compound locations are shown on Figure 2, located in Section 2.

	CMPND STATUS		MATRIX (✓)							DOCUMENTED COMPOUND AND CONCENTRATION OR ALLEGED COMPOUND AND RATIONAL	REFERENCE
LOCATON	DOCU	ALLEG	SOIL	SED	GW	SW	AIR	WSTE	OTHR		
ENTIRE		X	X							ALLEGED TCE SPILL ON THE GROUND.	15,16
SITE		X			X					ALLEGED MIGRATION OF TCE TO GROUNDWATER	7,15,16

Table 1
DOCUMENTED/ALLEGED TARGET COMPOUND LIST

C. PRELIMINARY/PROJECTED HRS SCORES

The purpose of this section is to:

- o Prepare a preliminary HRS 1 score based on existing file information; and
- o Prepare projected HRS 1 scores based on experience and professional judgment.

PRELIMINARY HRS SCORE (this score is based on existing file information that was obtained prior to the screening site inspection):

S_M = 0 S_{FE} = 0 S_{DC} = 0

PROJECTED HRS SCORE FOR A SCREENING SITE INSPECTION (this score is based on the expected acquisition of information from the screening site inspection):

S_M = 42.23 S_{FE} = 0 S_{DC} = 33.33

PROJECTED HRS SCORE FOR A LISTING SITE INSPECTION (this score is based on the expected acquisition of information from the Listing Site Inspection):

S_M = 42.23 S_{FE} = 0 S_{DC} = 33.33

HRS 1 score worksheets are located in Section 3.

D. WORK SUMMARY

Based on the preliminary and projected HRS scores, a site inspection will be performed.

The objectives of the site inspection are to:

- o Provide information to satisfy HRS data gaps;
- o Develop the information base needed to permit U.S. EPA to evaluate the need for future site activities; including: immediate removal measures, additional investigation, or no further action; and
- o Characterize hazardous substances, pollutant dispersal pathways, types of receptors, facility management practices, and potentially responsible parties.

Specific tasks to be conducted during the site inspection are (check all that apply):

X Interview site owner(s)/representative(s)
X Take photographs of site and surrounding areas
X Screen site with safety instrumentation (i.e.,HNU, OVA, O_2 meter, explosimeter, radiation detector, cyanide detector)
X Collect environmental samples
X Assess the need for Immediate Removal Actions
X FASP*
____ Soil gas monitoring*
____ Well point installations*
____ Geophysics*: _____ (Specify)
____ OTHER*: _____

* Rationale for these activities and their impact on HRS data gaps:
TO DETECT IF TCE IS PRESENT IN PURGED MONITORING WELL WATER.

E. PROPOSED SAMPLE PLAN

The HRS data gaps are identified in this section, and a proposed sample plan is developed based on the type of information required.

1 A) HRS data gap(s): WASTE CHARACTERIZATION

B) Sampling proposed to satisfy HRS data gap(s):

X Soil ____ Sediment ____ GW ____ SW ____ Air ____ Waste

C) Sampling procedures (number and types of samples; equipment; methodology): SEVEN SURFACE SOIL SAMPLES WILL BE COLLECTED WITHIN THE AREA OF THE FACILITY. TWO BACKGROUND SOIL SAMPLES ALSO WILL BE COLLECTED. THE SAMPLES WILL BE COLLECTED, PACKAGED AND SHIPPED ACCORDING TO USEPA PROTOCOL

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented on Figure 3 in Section 2.

2 A) HRS data gap(s): OBSERVED RELEASE TO GROUNDWATER

B) Sampling proposed to satisfy HRS data gap(s):

____ Soil ____ Sediment X GW ____ SW ____ Air ____ Waste

C) Sampling procedures (number and types of samples; equipment; methodology): 11 MONITORING WELLS AND 1 PROCESS WELL WITHIN THE SITE WILL BE SAMPLED. THE WELLS WILL BE PURGED PRIOR TO SAMPLING BY USING A PUMP. THE SAMPLES WILL BE COLLECTED, PACKAGED AND SHIPPED AS PER USEPA PROTOCOL. THE PURGED WATER WILL BE DRUMED AND TESTED FOR TCE USING FASP. IF TCE IS DETECTED ABOVE RCRA STANDARDS THE DRUMS WILL BE DISPOSED OFF ACCORDING TO US EPA GUIDELINES. OTHERWISE, THE DRUMS WILL BE EMPTIED AT THE SITE.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

E. PROPOSED SAMPLE PLAN

The HRS data gaps are identified in this section, and a proposed sample plan is developed based on the type of information required.

3. A) HRS data gap(s): OBSERVED RELEASE TO SURFACE WATER

B) Sampling proposed to satisfy HRS data gap(s):

____Soil ____Sediment ____GW ____SW ____Air ____Waste

C) Sampling procedures (number and types of samples; equipment; methodology): NO SURFACE WATER SAMPLES WILL BE COLLECTED AS THERE IS NO MIGRATION PATHWAY FOR SURFACE WATER FROM THE FACILITY TO THE RIVER. THE FACILITY IS SURROUNDED BY CITY STREETS AND A RAIL ROAD.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented on Figure 3 in Section 2.

4 A) HRS data gap(s): OBSERVED RELEASE TO AIR.

B) Sampling proposed to satisfy HRS data gap(s):
____Soil ____Sediment ____GW ____SW ____Air ____Waste

C) Sampling procedures (number and types of samples; equipment; methodology): NO AIR SAMPLING WILL BE DONE DURING SI AS THERE IS NO DOCUMENTATION OF AIR POLLUTION AT THE FACILITY.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

LOCATION	MATRIX (✓) SOIL	SED	GW	SW	AIR	WSTE	OTHR	RATIONALE FOR DETERMINING SAMPLE LOCATION	PARAMETERS[1] A/B/N	Pest/PCB	VOA	METAL	CN^-	OTHER
S_1	X							WASTE CHARACTERIZATION	X	X	X	X	X	
S_2	X							"	X	X	X	X	X	
S_3	X							"	X	X	X	X	X	
S_4	X							"	X	X	X	X	X	
S_5	X							"	X	X	X	X	X	
S_6	X							"	X	X	X	X	X	
S_7	X							"	X	X	X	X	X	
S_8	X							BACKGROUND SAMPLE AT NORTHEAST OF FACILITY	X	X	X	X	X	
S_9	X							BACKGROUND SAMPLE AT SOUTHWEST OF FACILITY	X	X	X	X	X	
MW_1			X					OBSERVED RELEASE TO GROUNDWATER	X	X	X	X	X	
MW_2			X					"	X	X	X	X	X	
MW_3			X					"	X	X	X	X	X	
MW_4			X					"	X	X	X	X	X	
MW_5			X					"	X	X	X	X	X	
MW_6			X					"	X	X	X	X	X	
MW_7			X					"	X	X	X	X	X	
MW_8			X					"	X	X	X	X	X	
MW_9			X					"	X	X	X	X	X	
MW_{10}			X					"	X	X	X	X	X	
MW_{11}			X					"	X	X	X	X	X	
PW			X					PRODUCTION WELL	X	X	X	X	X	
DUP			X					DUPLICATE	X	X	X	X	X	
BLANK 1							X	BLANK DAY 1	X	X	X	X	X	
BLANK 2							X	BLANK DAY 2	X	X	X	X	X	
TOTALS	9		13				2		24	24	24	24	24	

Table 2
PROPOSED SAMPLE DESCRIPTIONS
(INCLUDING ALL LABORATORY BLANKS AND DUPLICATES)

F. COMMENTS

NONE

G. HEALTH AND SAFETY

Proposed E & E Health and Safety protocol to be followed during site inspection.

1. Anticipated level of protection: ____ A ____ B ✓ C X D

2. Level of protection modifications: UPGRADE THE LEVEL OF PROTECTION IF THE SITE MONITORING EQUIPMENTS WARRENTS TO DO SO. THE MONITORING WELLS WILL BE VENTED IN LEVEL C.

3. Work limitations (time of day, etc.): WORK WILL BE LIMITED TO DAYTIME HOURS ONLY. BUDDY SYSTEM WILL BE OBSERVED AT ALL TIMES. TEAM MEMBERS WILL BE WATCHED OUT FOR HEA AND/OR COLD STRESS

H. TYPE OF DELIVERABLE

Proposed report format to be submitted to U.S. EPA.

1. ✓ SSI Report including U.S. EPA 2070-13 Form
2. ___ Letter Report
3. ___ Other_____

SUBTASK CODE	General Non-Specific	File Search/Review	Work Plan	Safety Plan	QAPP	Mobilization/Demobilization	Travel	Non-Sampling Field Work	Sample Management	Field Sampling	Screening/Analytical	Subcontract	Meteorologic/Air Sampling Studies	Geophysical Work	Hydrogeological Work	Data Processing/Modelling	Data Validation	Draft Final Deliverable	Internal QA Review	Final Deliverable	Respond To Comments	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	TOTAL
TEAM LEADER	25	15		12		10	12	6		36								100		20		236
SAFETY OFFICER	2					4	12	6		36												60
SAMPLER	2					4	12	6	59													83
TEAM MEMBER	1					4	12	6		36												59
TEAM MEMBER	1			2		10	12	6		36												67
TEAM MEMBER	1					10	12	6		36												65
						6																6
QA				4													20	20	30			74
TOTALS FOR PROJECT	32	15		18		48	72	36	59	180							20	120	30	20		650

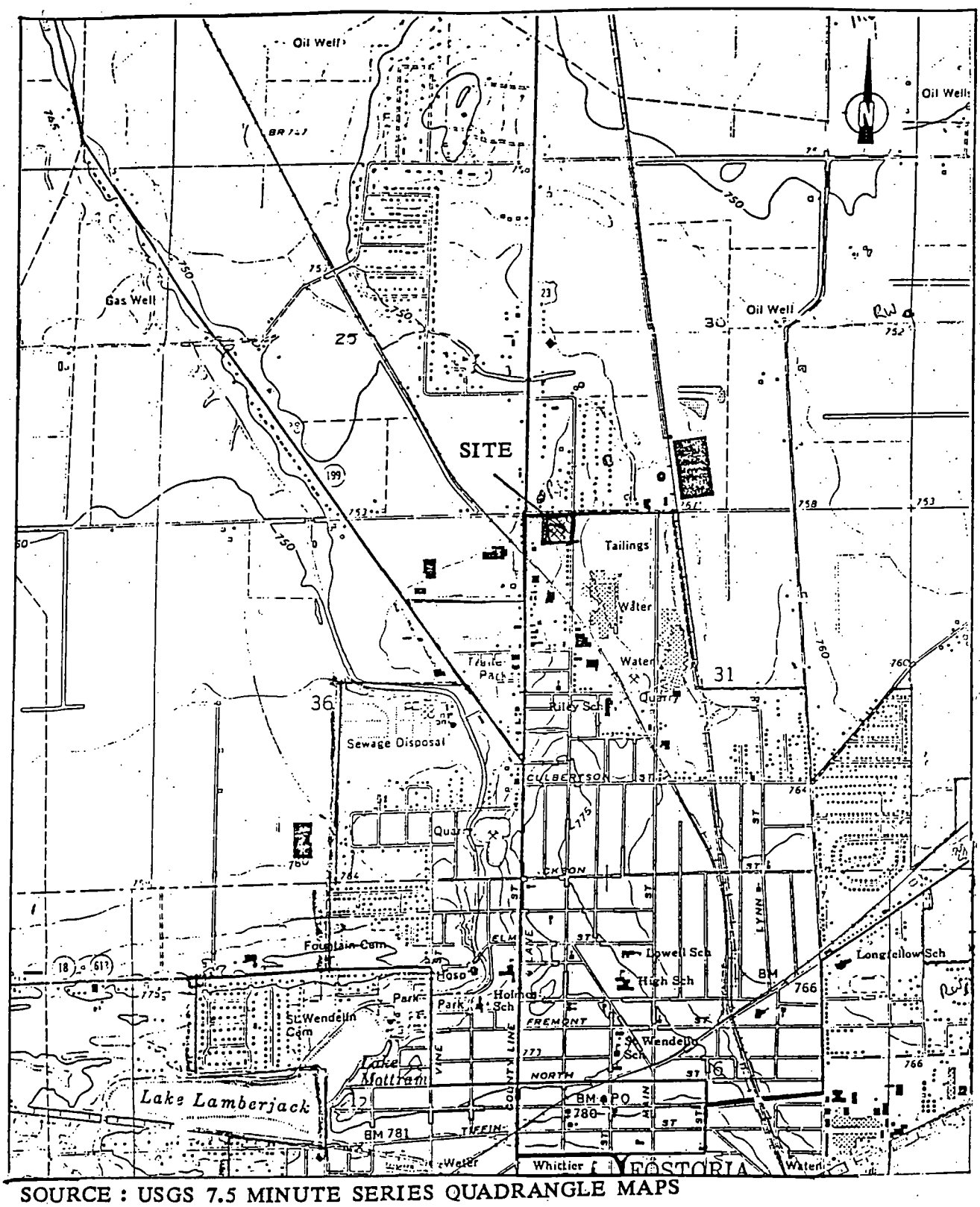
SUBTASK

I. ESTIMATED LOE HOURS

SUMMARY OF PROJECTED HOURS NEEDED TO IMPLEMENT SITE INSPECTION AND COMPLETE SITE INSPECTION REPORT.

2

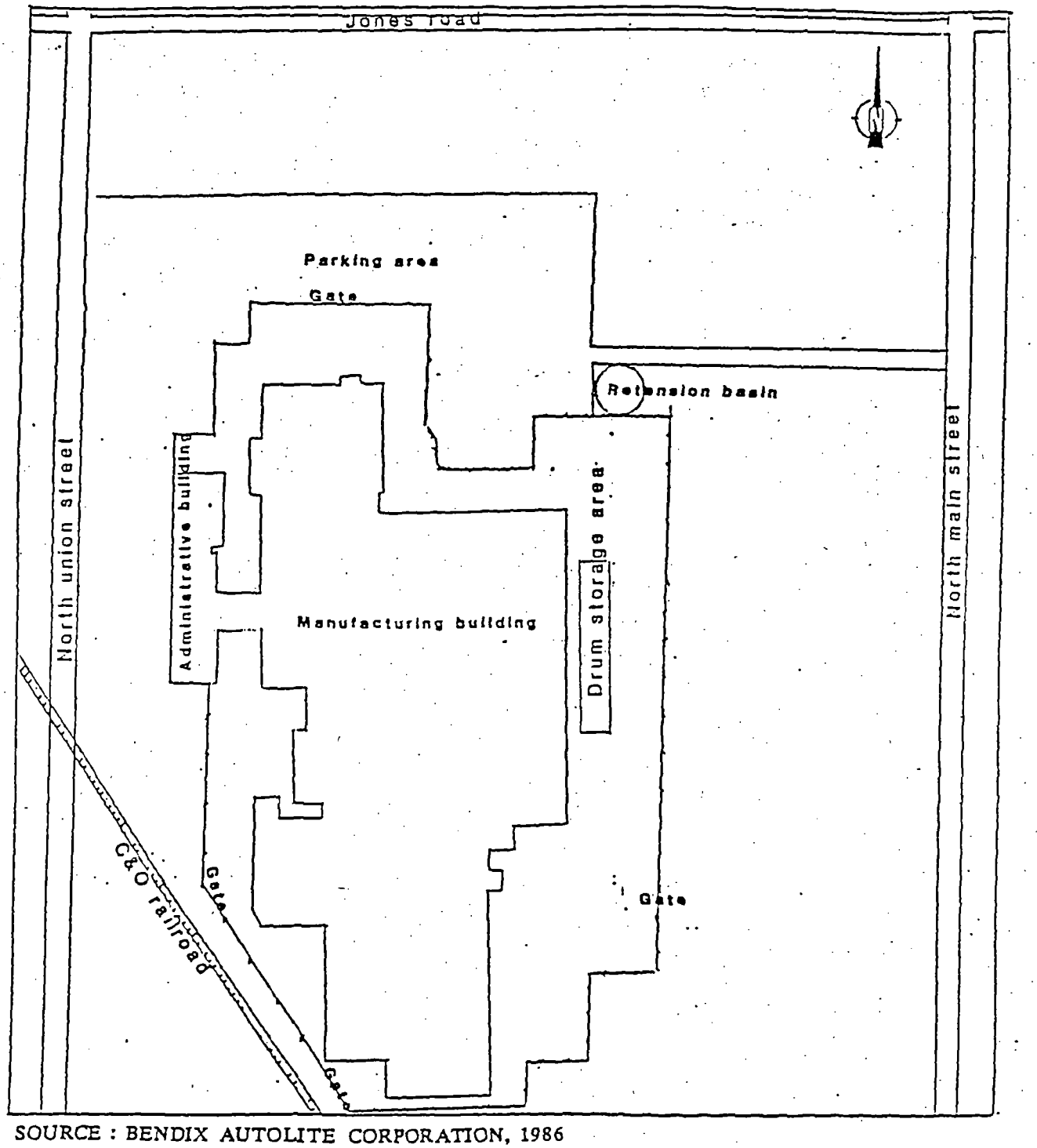
SITE MAPS



SOURCE : USGS 7.5 MINUTE SERIES QUADRANGLE MAPS

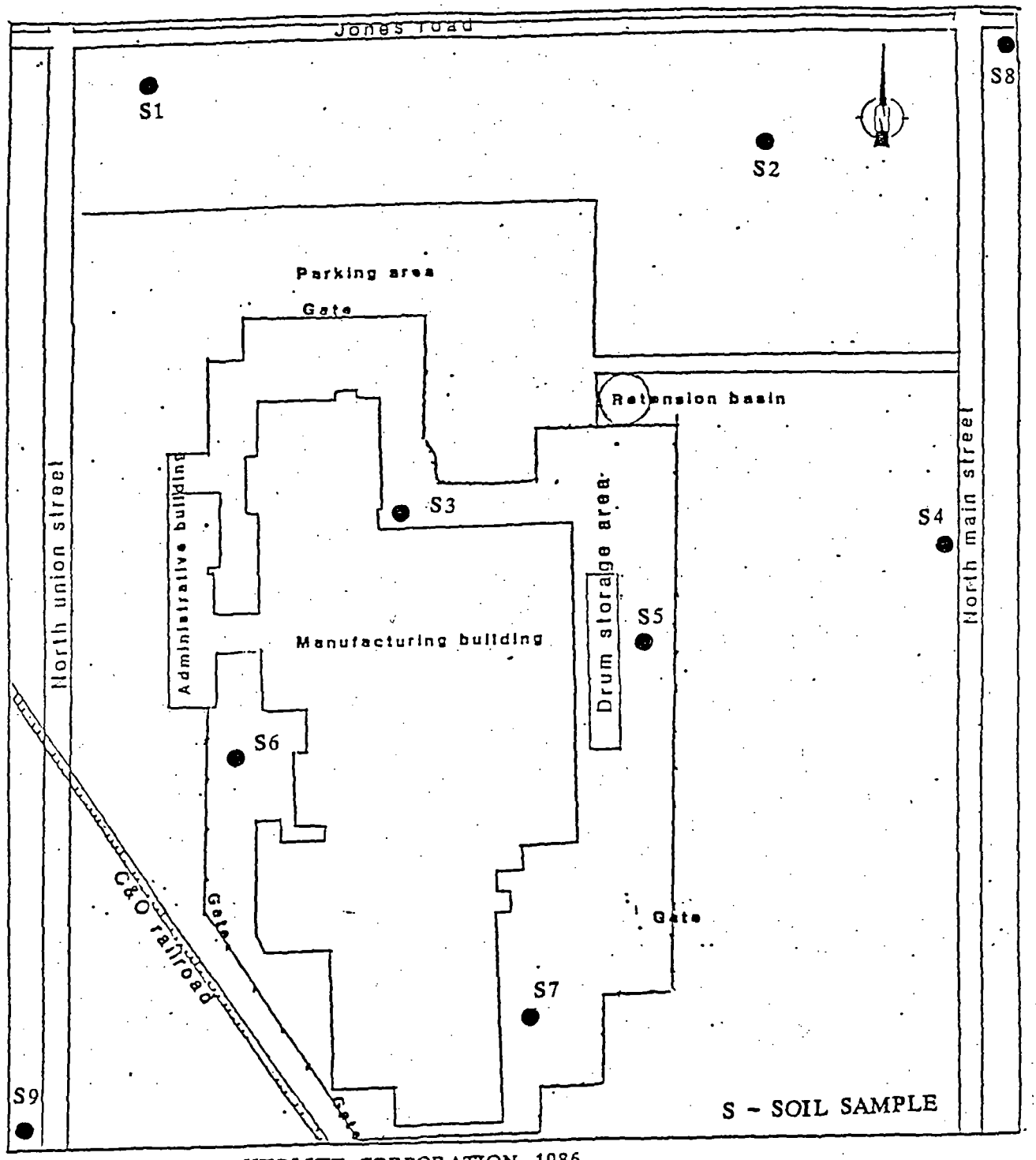
FIGURE 1

SITE LOCATION MAP
SCALE 1 : 24000



SOURCE : BENDIX AUTOLITE CORPORATION, 1986

FIGURE 2
DOCUMENTED/ALLEGED TARGET COMPOUND MAP
SCALE 1 : 1800

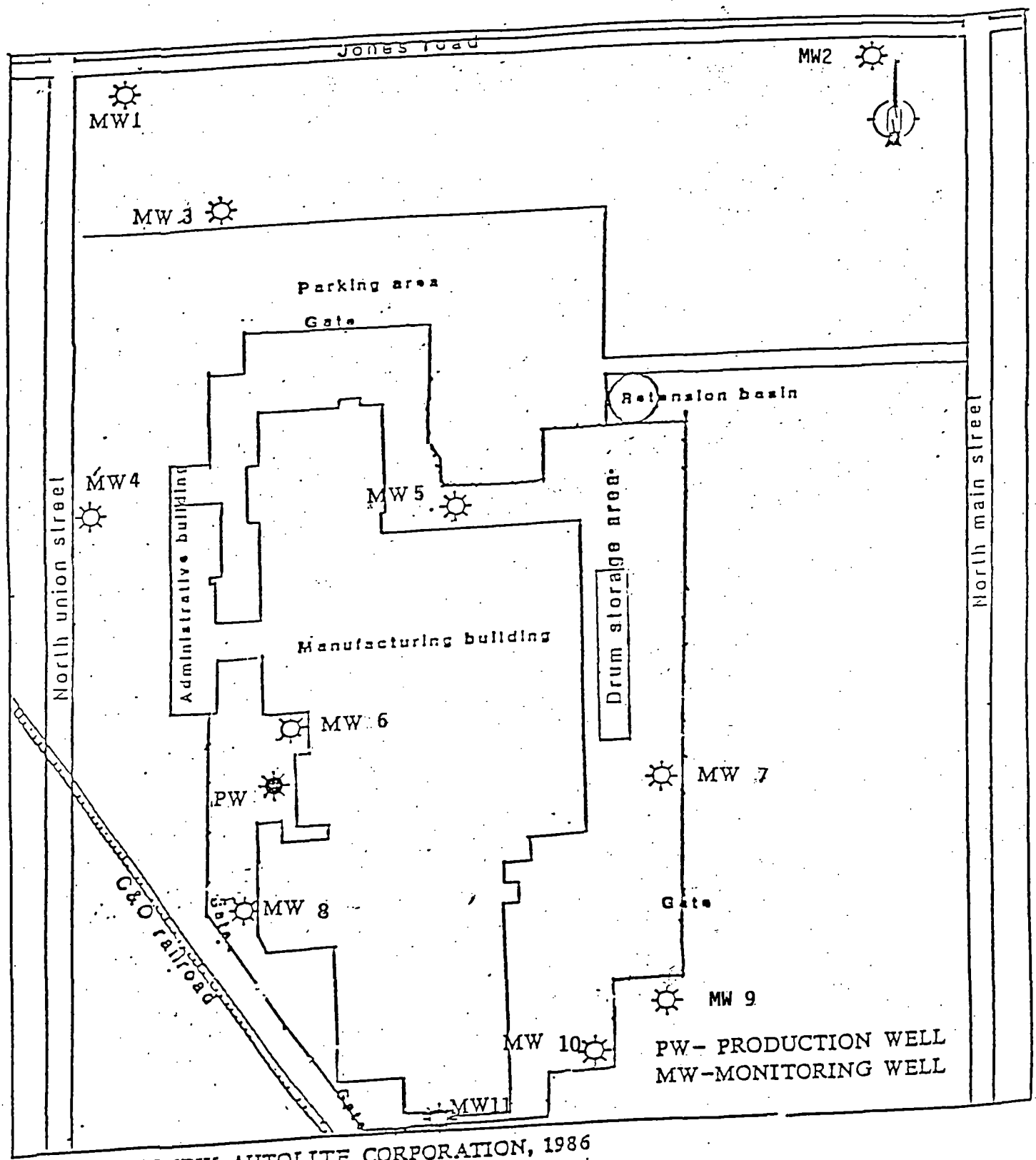


SOURCE : BENDIX AUTOLITE CORPORATION, 1986

FIGURE 3

SOIL SAMPLING LOCATION MAP

SCALE 1 : 1800



SOURCE : BENDIX AUTOLITE CORPORATION, 1986

FIGURE 4
MONITORING WELL SAMPLING LOCATION MAP
SCALE 1 : 1800

3

HRS WORKSHEETS

PRELIMINARY AND PROJECTED HAZARD RANKING SYSTEM SCORE WORKSHEETS

Site Name: BENDIX AUTOLITE CORP. (Cerclis Name)

ALLIED AUTOMOTIVE (A.K.A.)

Address: 1600 N. UNION ROAD

City/County/State/Zip FOSTORIA / SENECA / OHIO / 44830

Cerclis ID # OHD066046228 SSID NONE

Prepared by Mathew Joseph, CCJM (CCJM) Date NOVEMBER 16, 1989

Reviewed by Om prakash Patil CCJM Date December 6, 1989

TDD: F058706223 PAN F0H0620GA

Type of Document

PA	____
PA Reassessment	____
WP-SSI	X
WP-LSI	____

PRELIMINARY HRS SCORE

S_M= 0 S_{FE}= 0 S_{DC}= 0

PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSI)

S_M= 42.23 S_{FE}= 0 S_{DC}= 33.33

PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

S_M= 42.23 S_{FE}= 0 S_{DC}= 33.33

PRELIMINARY HRS SCORE

(THIS SCORE IS BASED ON EXISTING FILE INFORMATION THAT WAS OBTAINED PRIOR TO THE SCREENING SITE INSPECTION.)

	S	S^2
Groundwater Route Score (S_{gw}-)	0	0
Surface Water Route Score (S_{sw}-)	0	0
Air Route Score (S_A-)	0	0
$S_{gw}^2 + S_{sw}^2 + S_A^2$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2}$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2} / 1.73$ - S_M-		0

PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSI)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE SCREENING SITE INSPECTION.)

	S	S^2
Groundwater Route Score (S_{gw}-)	73.07	5339.22
Surface Water Route Score (S_{sw}-)	0	0
Air Route Score (S_A-)	0	0
$S_{gw}^2 + S_{sw}^2 + S_A^2$		5339.22
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2}$		73.07
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2} / 1.73$ - S_M-		42.24

PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE LISTING SITE INSPECTION.)

	S	S^2
Groundwater Route Score (S_{gw}-)	73.07	5339.22
Surface Water Route Score (S_{sw}-)	0	0
Air Route Score (S_A-)	0	0
$S_{gw}^2 + S_{sw}^2 + S_A^2$		5339.22
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2}$		73.07
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2} / 1.73$ - S_M-		42.24

GROUNDWATER ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	NONE DOCUMENTED	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description: LIMESTONE AQUIFER	5,6
Depth to Aquifer of concern	0 1 2 (3)	x2	6	9 ft.	5,6
Net Precipitation	0 (1) 2 3	x1	1	Precip 34" Evap 32"	3
Permeability of the Unsaturated Zone	0 (1) 2 3	x1	1	LIMESTONE cm/sec	5,6
Physical State	0 1 2 (3)	x1	3	LIQUIDS	7,12,14
	Total Route Char. Score		11		
3 Containment	0 (1) 2 3	x1	1	ABOVE GROUND TANKS IN THE PAST. NOW DRUMS ONLY.	7,12,15
4 Waste Characteristics				ALLEGEDLY TCE UNKNOWN	
Persistence	0 1 2 3			PERSISTENCE = 0	
Toxicity	0: 0 0 0 0 1: 3 6 9 12 2: 6 9 12 15 3: 9 12 15 18	x1	0	TOXICITY = 0	
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1	0	UNKNOWN	
	Total Waste Char. Score		0		
5 Targets					
Groundwater Use	0 1 2 (3)	x3	9	DRINKING	8,13,17
Distance to Nearest Well	0 1 2 3 (4)			DISTANCE ≈1000ft	2,11
Population Served	0: 0 0 0 0 0 1: 0 4 6 8 10 2: 0 8 12 16 20 3: 0 12 18 24 30 4: 0 16 24 32 35 (5): 0 20 30 35 (40)	x1	40	POPULATION = 17590	9,10
	Total Targets Score		49		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 57,330 and multiply by 100			$S_{gw} = 0$		

GROUNDWATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Release	0 45	x1	45	ASSUMED AFTER SAMPLING THE MONITORING WELLS AT THE FACILITY	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description:	
Depth to Aquifer of concern	0 1 2 3	x2		ft.	
Net Precipitation	0 1 2 3	x1		Precip Evap	
Permeability of the Unsaturated Zone	0 1 2 3	x1		cm/sec	
Physical State	0 1 2 3	x1			
	Total Route Char. Score				
3 Containment	0 1 2 3	x1			
4 Waste Characteristics				TCE ALLEGEDLY PRESENT	7,14,23
Persistence	0 1 2 3			TOXICITY = 3	
Toxicity	0 0 0 0 0 1 3 6 9 12 2 6 9 12 15 3 9 12 15 18	x1	18	PERSISTENCE = 3	
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1	1	ASSUMED PRESENT	
	Total Waste Char. Score		19		
5 Targets					
Groundwater Use	0 1 2 3	x3	9	DRINKING	8,13,17
Distance to Nearest Well	0 1 2 3 4			DISTANCE ≈ 1000ft	2,11
Population Served	0 0 0 0 0 0 1 0 4 6 8 10 2 0 8 12 16 20 3 0 12 18 24 30 4 0 16 24 32 35 5 0 20 30 35 40	x1	40	POPULATION = 17590	9,10
	Total Targets Score		49		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			41895		
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 73.07		

GROUNDWATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected aquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	0 45	x1	45	AFTER INSTALLING ADDITIONAL MONITORING WELLS	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description:	
Depth to Aquifer of concern	0 1 2 3	x2		ft.	
Net Precipitation	0 1 2 3	x1		Precip Evap	
Permeability of the Unsaturated Zone	0 1 2 3	x1		cm/sec	
Physical State	0 1 2 3	x1			
	Total Route Char. Score				
3 Containment	0 1 2 3	x1			
4 Waste Characteristics				TCE ALLEGEDLY PRESENT	7,14,23
				TOXICITY = 3	
		x1	18	PERSISTENCE = 3	
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1	1	ASSUMED PRESENT	
	Total Waste Char. Score		19		
5 Targets					
Groundwater Use	0 1 2 3	x3	9	DRINKING	8,13,17
Distance to Nearest Well				DISTANCE ≈ 1000ft	2,11
Population Served				POPULATION = 17590	9,10
		x1	40		
	Total Targets Score		49		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			41895		
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 73.07		

Persistence

Toxicity	0	1	2	3
0	0	0	0	0
1	3	6	9	12
2	6	9	12	15
3	9	12	15	18

Distance to Nearest Well

Population Served	0	1	2	3	4
0	0	0	0	0	0
1	0	4	6	8	10
2	0	8	12	16	20
3	0	12	18	24	30
4	0	16	24	32	35
5	0	20	30	35	40

SURFACE WATER ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x 1	0	NONE DOCUMENTED	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Facil % UNKNOWN	
Facility Slope (Intervening Terrain)	0 (0) 0 0 3 0 1 1 2 3 0 1 2 2 3 0 2 2 3 3 0 2 3 3 3	x 1	0	Interv % NO POTENTIAL MIGRATION PATHWAY	2,
1-yr. 24 hr Rainfall	0 1 (2) 3	x 1	2	2.2 in.	4.
Distance to Nearest Surface Water	(0) 1 2 3	x 2	0	NO PATHWAY	2
Physical State	0 1 2 (3)	x 1	3	LIQUID	7,12,14
	Total Route Char. Score		5		
3 Containment	(0) 1 2 3	x 1	0	NO MIGRATION PATHWAY TO SURFACEWATER	2 *
4 Waste Characteristics					
Persistence (0) 1 2 3 / Toxicity (0) 1 2 3	0 0 0 0 3 6 9 12 6 9 12 15 9 12 15 18			UNKNOWN	
		x 1	0	PERSISTENCE = 0 TOXICITY = 0	
Haz. Waste Quantity	(0) 1 2 3 4 5 6 7 8	x 1	0	UNKNOWN	
	Total Waste Char. Score		0		
5 Targets					
Surface Water Use	0 1 2 (3)	x 3	9	DRINKING	8,13,17
Dist. to Sensitive Environment	(0) 1 2 3	x 2	0	NONE	2
Population Served (Distance to Water Intake Downstream)	0 0 0 0 0 0 4 6 8 10 0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 (20) 30 35 40	x 1	20	INTAKES ~ 2 MILE POPULATION = 15743	2,8 9,10
	Total Targets Score		29		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 0		

* THERE IS NO POTENTIAL MIGRATION PATHWAY TO SURFACE-WATER BECAUSE CITY STREETS, RAILROAD AND HIGHWAY INTERVENE.

SURFACE WATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x 1	0	NONE DOCUMENTED	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Facil % UNKNOWN	
Facility Slope / Intervening Terrain	0 (1) 0 0 3 0 1 1 2 3 0 1 2 2 3 0 2 2 3 3 0 2 3 3 3	x 1	0	Interv % NO MIGRATION PATHWAY	2
1-yr. 24 hr Rainfall	0 1 (2) 3	x 1	2	2.2 in.	4
Distance to Nearest Surface Water	(0) 1 2 3	x 2	0	NO PATHWAY	2
Physical State	0 1 2 (3)	x 1	3	LIQUID	7,12,14
	Total Route Char. Score		5		
3 Containment	(0) 1 2 3	x 1	0	NO MIGRATION PATHWAY TO SURFACE WATER	2 *
4 Waste Characteristics					
Persistence / Toxicity	0 1 2 (3) 0: 0 0 0 0 1: 3 6 9 12 2: 6 9 12 15 (3): 9 12 15 18	x 1	18	TCE ALLEGEDLY PRESENT ASSUMED TOXICITY = 3 PERSISTENCE = 3	7,14,23
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x 1	1	ASSUMED PRESENT	
	Total Waste Char. Score		19		
5 Targets					
Surface Water Use	0 1 2 (3)	x 3	9	DRINKING	8,17
Dist. to Sensitive Environment	(0) 1 2 3	x 2	0	NONE	2
Population Served / Distance to Water Intake Downstream	0 0 0 0 0 0 4 6 8 10 0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 (20) 30 35 40	x 1	20	DISTANCE ~2 MILES POPULATION = 15743	2,8 9,10
	Total Targets Score		29		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 0		

* THERE IS NO POTENTIAL MIGRATION PATHWAY TO SURFACE WATER BECAUSE CITY STREETS, RAILROAD AND HIGHWAY INTERVENE.

SURFACE WATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected aquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	0 45	x1	0	NONE DOCUMENTED	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics	Intervening Terrain Facility Slope: 0 0 0 0 3; 0 1 1 2 3; 0 1 2 2 3; 0 2 2 3 3; 0 2 3 3 3	x1		Facil % UNKNOWN Interv % NO MIGRATION PATHWAY	2
1-yr. 24 hr Rainfall	0 1 2 3	x1	2	2-2 in.	4
Distance to Nearest Surface Water	0 1 2 3	x2	0	NO PATHWAY	2
Physical State	0 1 2 3	x1	3	LIQUID	7,12,14
	Total Route Char. Score		5		
3 Containment	0 1 2 3	x1	0	NO MIGRATION PATHWAY TO SURFACE WATER	2 *
4 Waste Characteristics					
Persistence / Toxicity	0 1 2 3 0: 0 0 0 0 1: 3 6 9 12 2: 6 9 12 15 3: 9 12 15 18	x1	18	TCE ALLEGEDLY PRESENT PERSISTENCE = 3	
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1	1	TOXICITY = 3 ASSUME PRESENT	
	Total Waste Char. Score		19		
5 Targets					
Surface Water Use	0 1 2 3	x3	9	DRINKING	8,17
Dist. to Sensitive Environment	0 1 2 3	x2	0	NONE	2
Population Served	Distance to Water Intake Downstream 0 0 0 0 0 0 4 6 8 10 0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	x1	20	INTAKES ~ 2 MILE POPULATION = 15743	2,8 9,10
	Total Targets Score		29		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 0		

* THERE IS NO POTENTIAL MIGRATION PATHWAY TO SURFACE WATER BECAUSE CITY STREETS, RAILROAD AND HIGHWAY INTERVENE

AIR ROUTE *

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	NONE DOCUMENTED	
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Population within 4-mile Radius	Dist to Population Pop. 0 0 0 0 9 12 15 18 12 15 18 21 15 18 21 24 18 21 24 27 21 24 27 30	x1			
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 35,100 and multiply by 100			S_a = 0		

AIR ROUTE *

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	0 45	x1	0	NONE DOCUMENTED	
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Population within 4-mile Radius	Dist to Population Pop. 0 0 0 0 9 12 15 18 12 15 18 21 15 18 21 24 18 21 24 27 21 24 27 30	x1			
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 35,100 and multiply by 100			S_a = 0		

* NO AIR SAMPLING WILL BE DONE AT THIS TIME.

AIR ROUTE *

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected aquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	NONE DOCUMENTED	
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Population within 4-mile Radius	Dist to Population Pop. 0 0 0 0 9 12 15 18 12 15 18 21 15 18 21 24 18 21 24 27 21 24 27 30	x1			
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 35,100 and multiply by 100			S_a = 0		

* AIR SAMPLING WILL BE DONE IF AIR CONTAMINATION IS OBSERVED DURING SSI.

FIRE AND EXPLOSION *

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Containment	1 3	x1			
2 Waste Characteristics					
Direct Evidence	0 3	x 1			
Ignitability	0 1 2 3	x 1			
Reactivity	0 1 2 3	x 1			
Incompatability	0 1 2 3	x 1			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x 1			
	Total Waste Char. Score				
3 Targets					
Dist. to Nearest Pop.	0 1 2 3 4 5	x 1			
Dist. to Nearest Bldg.	0 1 2 3	x 1			
Dist. to Sensitive Env.	0 1 2 3	x 1			
Land Use	0 1 2 3	x 1			
Pop. Within 2 miles	0 1 2 3 4 5	x 1			
Bldgs. Within 2 miles	0 1 2 3 4 5	x 1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 1,440 and multiply by 100			$S_{FE} = 0$		

* NO FIRE OR EXPLOSION HAZARD INFORMATION IN THE FILES

Ref # 24

FIRE AND EXPLOSION

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Containment	1 3	x1			
2 Waste Characteristics					
Direct Evidence	0 3	x 1			
Ignitability	0 1 2 3	x 1			
Reactivity	0 1 2 3	x 1			
Incompatability	0 1 2 3	x 1			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x 1			
	Total Waste Char. Score				
3 Targets					
Dist. to Nearest Pop.	0 1 2 3 4 5	x 1			
Dist. to Nearest Bldg.	0 1 2 3	x 1			
Dist. to Sensitive Env.	0 1 2 3	x 1			
Land Use	0 1 2 3	x 1			
Pop. Within 2 miles	0 1 2 3 4 5	x 1			
Bldgs. Within 2 miles	0 1 2 3 4 5	x 1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 1,440 and multiply by 100			$S_{FE} = 0$		

* NO FIRE OR EXPLOSION HAZARD INFORMATION IN THE FILES

Ref #24

FIRE AND EXPLOSION

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Containment	1 3	x1			
2 Waste Characteristics					
Direct Evidence	0 3	x1			
Ignitability	0 1 2 3	x1			
Reactivity	0 1 2 3	x1			
Incompatability	0 1 2 3	x1			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Dist. to Nearest Pop.	0 1 2 3 4 5	x1			
Dist. to Nearest Bldg.	0 1 2 3	x1			
Dist. to Sensitive Env.	0 1 2 3	x1			
Land Use	0 1 2 3	x1			
Pop. Within 2 miles	0 1 2 3 4 5	x1			
Bldgs. Within 2 miles	0 1 2 3 4 5	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 1,440 and multiply by 100			$S_{FE}=0$		

* NO FIRE OR EXPLOSION HAZARD INFORMATION IN THE FILE.

Ref #24

DIRECT CONTACT

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Incident	(0) 45	x1	0	NONE DOCUMENTED	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 (2) 3	x1	2	FENCING AROUND THE FACILITY BUT SECURITY IS UNKNOWN.	14
3 Containment	(0) 15	x1	0	UNKNOWN	
4 Waste Characteristics					
Toxicity	(0) 1 2 3	x5	0	UNKNOWN	
5 Targets					
Pop. Within 1 mile	0 1 2 3 (4) 5	x4	16	POPULATION ≈ 6000	9,10
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	UNKNOWN	
	Total Targets Score		16		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 0		

DIRECT CONTACT

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Incident	(0) 45	x1	0	NONE DOCUMENTED	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 (2) 3	x1	2	FENCE AROUND THE BLDG BUT SECURITY IS UNKNOWN	14
3 Containment	0 (15)	x1	15	ASSUMED	
4 Waste Characteristics					
Toxicity	0 1 2 (3)	x5	15	ASSUMED	
5 Targets					
Pop. Within 1 mile	0 1 2 3 (4) 5	x4	16	POPULATION ≈ 6000	9,10
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	UNKNOWN	
	Total Targets Score		16		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			7200		
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 33.33		

DIRECT CONTACT

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Incident	(0) 45	x1	0	UNKNOWN	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 (2) 3	x1	2	FENCE AROUND THE FACILITY BUT SECURITY IS UNKNOWN	14
3 Containment	0 (15)	x1	15		
4 Waste Characteristics					
Toxicity	0 1 2 (3)	x5	15	ASSUMED	
5 Targets					
Pop. Within 1 mile	0 1 2 3 (4) 5	x4	16	POPULATION ≈ 6000	9,10
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	UNKNOWN	
	Total Targets Score		16		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			7200		
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 33.33		

4

APPENDIX

Copies of the following addenda have been supplied to the U.S. Environmental Protection Agency and the appropriate state agencies. Refer to these addenda when reviewing this work plan.

Addendum	Title
A	Routine Analytical Services Contract Required Detection and Quantitation Limits
B	Central Regional Laboratory Detection Limits
C	Special Analytical Services Detection Limits Drinking Water Samples
D	Special Analytical Services Detection Limits High Concentration Samples

REFERENCES

REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
1	FEDERAL REGISTER, JULY 16, 1982.
2	U.S. GEOLOGICAL SURVEY, TOPOGRAPHIC MAPS, 7.5 MINUTE SERIES, QUADRANGLE : 1. FOSTORIA, DATED - 1960 ; REVISED - 1972 2. BASCOM, DATED - 1960 ; REVISED - 1972 3. ALVADA, DATED - 1960 ; REVISED - 1972 4. NEW RIEGEL, DATED - 1960 ; REVISED - 1972.
3	U.S. DEPARTMENT OF COMMERCE, 1979, CLIMATIC ATLAS OF THE UNITED STATES, ASHVILLE, N.C, NATIONAL CLIMATIC CENTER
4	U.S. DEPARTMENT OF COMMERCE, 1963, RAINFALL FREQUENCY ATLAS OF THE UNITED STATES, TECHNICAL PAPER NO: 40, WASHINGTON, D.C., U.S. GOVERNMENT PRINTING OFFICE.

REFERENCE DOCUMENTATION SHEET

Ref.# DESCRIPTION OF REFERENCE

5 STATE OF OHIO, OHIO WATER RESOURCES BOARD, DEPARTMENT OF PUBLIC WORKS, 1950, WELL LOG AND DRILLING REPORT OF 2 WELLS IN SECTION 30, JACKSON TOWNSHIP, SENACA COUNTY.

6 STATE OF OHIO, DEPARTMENT OF NATURAL RESOURCES, WELL LOG AND DRILLING REPORT OF 2 WELLS IN SECTION 30, JACKSON TOWNSHIP, SENECA COUNTY.

7 U.S. ENVIRONMENTAL PROTECTION AGENCY, AUGUST 28, 1985, POTENTIAL HAZARDOUS SITE - PRELIMINARY ASSESMENT - PREPARED BY TIMOTHY J. MALEY, ECOLOGY & ENVIRONMENT.

8. PAT SAUM, APRIL 19, 1989, TELEPHONE CONVERSATION, ASSITANT PLANT MANAGER, FOSTORIA WATER DEPARTMENT, (419) - 435- 2793, CONTACTED BY MATHEW JOSEPH, CJM.

REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
9	U.S. DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS, JULY 1, 1985 ESTIMATES OF HOUSE HOLDS, FOR COUNTIES, SPECIAL STUDIES, SERIES P-23, NO: 156.
10	POPULATION CALCULATION FOR BENDIX AUTOLITE CORP. PREPARED BY MATHEW JOSEPH, CCJM
11	GROUND WATER RESOURCES OF SENECA COUNTY SHOWING DOMESTIC WELLS, INDUSTRIAL/MUNICIPAL WELLS.
12	US ENVIRONMENTAL PROTECTION AGENCY, CONSOLIDATED PERMITS PROGRAM, GERERAL INFORMATION

REFERENCE DOCUMENTATION SHEET

Ref. #	DESCRIPTION OF REFERENCE
13	OHIO EPA, DIVISION OF PUBLIC WATER SUPPLY, JULY 30, 1985, EVALUATION REPORT OF FOSTORIA MUNICIPAL WATER SUPPLY.
14	TREAMENT, STORAGE AND DISPOSAL FACILITIES, SITE INSPECTION REPORT – BENDIX AUTOLITE CORP, SEPTEMBER 29, 1981, INSPECTED BY DAVE FERGUSON ENVIRONMENTAL SCIENTIST, OHIO ENVIRONMENTAL PROTECTION AGENCY,
15	KATHERINE L. WILSON, OEPA, JANUARY 7, 1985, LETTER TO JOHN HOLDEN, MANAGER, HEALTH, SAFTY, ENVIRONMENTAL & PROTECTION SERVICES, ALLIED AUTOMOTIVE, FOSTORIA
16	JOHN L. HOLDEN, ALLIED AUTOMOTIVE, JANUARY 30, 1985 LETTER TO KATHERINE L. WILSON, OEPA, NW DISTRICT OFFICE.

REFERENCE DOCUMENTATION SHEET

Ref. #	DESCRIPTION OF REFERENCE
17	OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WATER,
	1977, INVENTORY OF MUNICIPAL WATER SUPPLY
	SYSTEMS BY COUNTY, OHIO.
18	RECRA INTERIM STATUS INSPECTION FORM, JUNE 15,
	1983, COMPLETED BY DAVID L. FERGUSON, OEPA.
19	BENDIX AUTOLITE CORPORTION, FOSTORIA, ELECTOPLATING
	AND METAL FINISHING GUIDLINES, BASELINE MONITORING
	REPORT.
20	JOHN L. HOLDEN, MANAGER, AUTOLITE, JANUARY 27, 1984, LETTER TO
	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, REGION V,
	CHICAGO.

REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
21	HARIS PUBLISHING Co, '85 OHIO INDUSTRIAL
	DIRECTORY.
22	OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF
	WILDLIFE, MARCH 20, 1989, LIST OF ENDANGERED
	SPECIES, OHIO.
23	T.A. GLEASON ASSOCIATES, OCTOBER 19, 1987,
	SAMPLING PLAN, REMEDIAL INVESTIGATION/
	FEASIBILITY STUDY, FOSTORIA, OHIO.
24	DAVEWOOD, APRIL 24, 1989, CHIEF, FOSTORIA FIRE DEPARTMENT
	TELEPHONE CONVERSATION LOG, CONTACTED BY
	MATHEW JOSEPH OF CCJM.

SOURCES AND DATES OF INFORMATION COLLECTION

SOURCE	DATE
✓1) State Hazardous/Solid Waste Files	2/26/88
✓2) State Water Files	2/26/88
✓3) State Air Files	2/26/88
4) State Department of Health	
5) State Geological Survey	
6) State Department of Natural Resources	
7) State Fire Marshall	
8) County Department of Health	
9) County Engineer	
10) County Clerk/Recorder of Deeds	
11) City Department of Health	
12) City Engineer	
✓13) City Fire Department/Fire Marshall	04/24/89
✓14) City Water/Sever Department	04/19/89
15) U.S. Soil Conservation Service	
16) Others	

STATE CONTACT(S): CHARLES HALL (name) — (419)-352-8461 (phone number)

JEFF WANDER (name) — (419)-352-8461 (phone number)