

File on eDOCs Yes No
Site Name Sinclair Refinery
Site No. 902003
County Allegheny
Town Wellsville
Foitable Yes No
File Name Documents / Reports
Scanned & eDOC _____

Report. HW902003. 1991-12. RA - Gonesee -
Partial - Channelization - Vol 5.

ARCO

**Remedial Action Report
Genesee River Partial Channelization
Sinclair Refinery Site
Wellsville, New York**

December 1991

Prepared by

EBASCO

An ENSERCH Engineering and Construction Company*

VOLUME 5 OF 7

CLEARING

FORM A-1 SLA
SHEET 1 OF 1
INSPECTION DATE _____

1. VERIFICATION INSPECTION

ACCEPT REJECT N/A

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.
- SLA BOUNDARIES STAKED TO CONFORM WITH CONTRACT DRAWINGS AND EXISTING TOPOGRAPHY RECORDED
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS.

<u>✓</u>	<u> </u>	<u> </u>
<u>✓</u>	<u> </u>	<u> </u>
<u>✓</u> *	<u> </u>	<u> </u>

2. DUST CONTROL

ACTION TAKEN

MOIST CONDITIONS - NO ACTION
REQUIRED

3. LOCATION (APPROXIMATE)

SEE ITEM NO. 4

COORDINATES

 TO
 TO

4. REMARKS

AND CLEARED
AREAS SURVEYED, CONFORMS TO BOUNDARIES
SHOWN ON DRAWING AR-2 WITH FOLLOWING
EXCEPTION -
* STORAGE AREA CLEARING WAS REACKED
TO CORRESPOND WITH AREA NEEDED
FOR STORAGE OF SLA MATERIAL
(WORK COMPLETED 11/3/90)

INSPECTOR

C. J. Swan

DATE

11/8/90

REVIEWED BY

J. Impardian

DATE

11/8/90

EXCAVATION OF SLA

FORM A-2, SLA
SHEET 1 OF 2
INSPECTION DATE _____

1. VERIFICATION INSPECTION

ACCEPT

REJECT

N/A

- EXCAVATION OF SLA IS CARRIED
TO SOIL/WASTE INTERFACE OR
LIMITS SHOWN ON CONTRACT
DRAWINGS.

✓

- SAMPLING GRID STAKED BY
SURVEYOR.

✓

- INCREMENTAL EXCAVATION
PERFORMED TO A DEPTH OF 1'-0
BASED UPON REVIEW OF TEST
RESULTS OF SAMPLES.

✓

2. DUST CONTROL

ACTION TAKEN

NO ACTION REQUIRED3. LOCATION (APPROXIMATE) SEE ATTACHED SKETCH

COORDINATES

TO

TO

4. REMARKS

EXCAVATION PERFORMED WITHIN
SHADED AREA SHOWN ON ATTACHED SKETCH

INSPECTOR

Thomas T. Yashinski

DATE

11-8-90

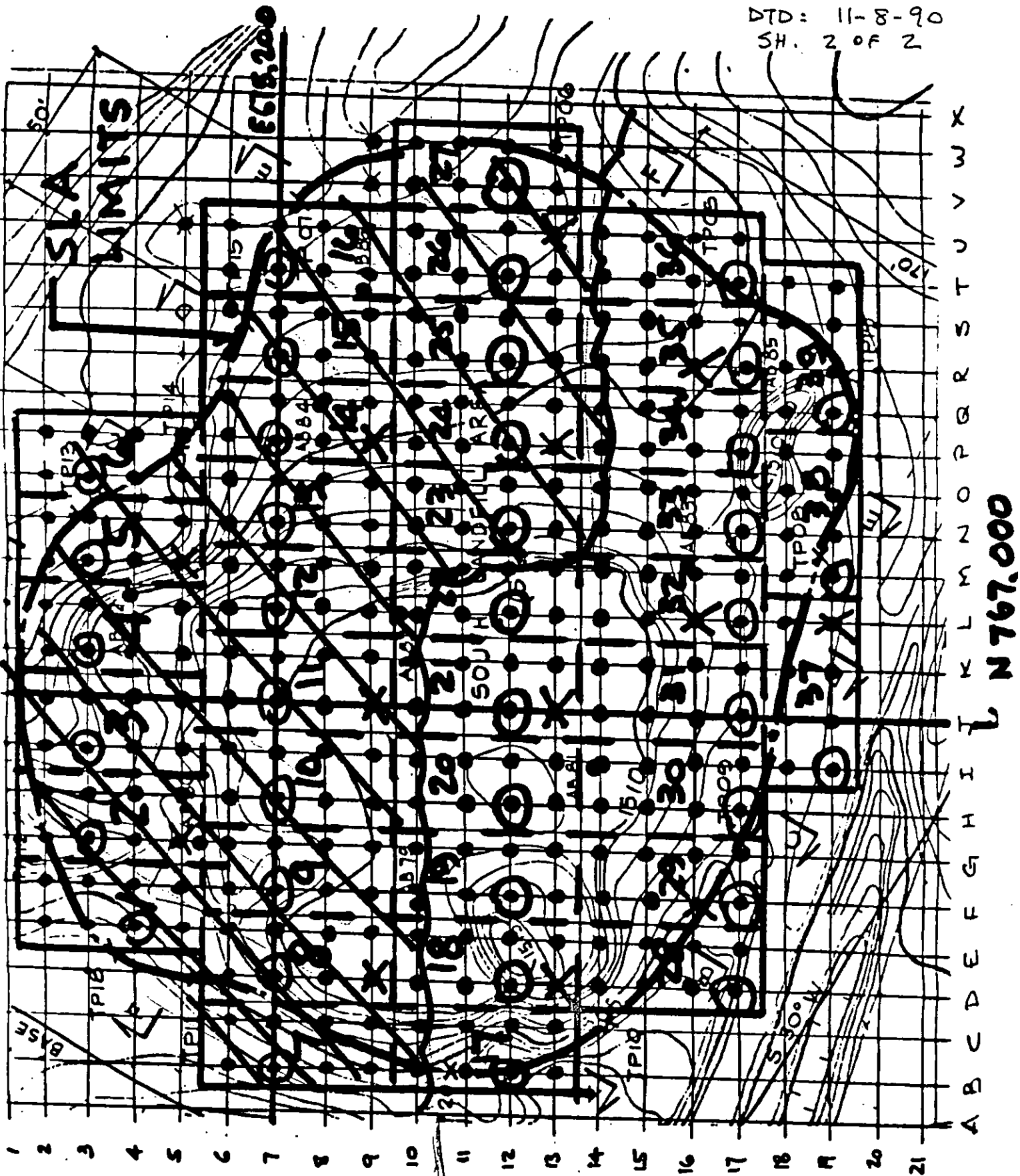
REVIEWED BY

Virav Supadrian

DATE

11-8-90

FORM A-2
DTD: 11-8-90
SH. 2 OF 2



COLLECTION AND ANALYSIS OF SOIL SAMPLES

FORM A-3 SLA
SHEET 1 OF 3
INSPECTION DATE _____

	ACCEPT	REJECT	N/A
1. VERIFICATION INSPECTION			
- SOIL SAMPLES COLLECTED AS PER SAMPLING AND ANALYSIS PLAN FOR SLA REMEDIATION.	<u>✓</u>	<u> </u>	<u> </u>
- SOIL ANALYSES IS PERFORMED FOR INDICATOR COMPOUNDS.	<u>✓</u>	<u> </u>	<u> </u>
- SOIL ANALYSES IS PERFORMED FOR ROD CLEANUP CRITERIA.	<u>X</u>	<u> </u>	<u> </u>

2. DUST CONTROL

ACTION TAKEN NO ACTION REQUIRED3. LOCATION OF SAMPLING SEE ATTACHED SKETCH
COORDINATES _____ TO _____
_____ TO _____4. REMARKS SAMPLING PERFORMED WITHIN
SHADED AREAS SHOWN ON ATTACHED SKETCH
ANALYSES OF ALL SAMPLES TAKEN FOR
INDICATOR COMPOUNDS NOT YET COMPLETED
* ROD CRITERIA SAMPLES ARE NOT ANALYZED

INSPECTOR

Thomas L. Yashinski

DATE

11-8-90

REVIEWED BY

Duran Simpadian

DATE

11/8/90

SH. 2 OF 3



↓
Z

PLACEMENT OF SLA MATERIAL

FORM A-4 SLA
SHEET _____ OF _____
INSPECTION DATE _____

1. MATERIAL	ACCEPT	REJECT	N/A
- MATERIAL IS FREE OF LARGE PARTS OF RUSTED OR INTACT DRUMS	☒	☐	☐
2. PLACEMENT			
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, AND OTHER OBSTRUCTIONS.	☒	☐	☐
- MAXIMUM LOOSE LIFT OF 12 INCHES.	☒	☐	☐
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	☒	☐	☐
- SURVEYOR VERIFY CONFIGURATION, SLOPES AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	☐	☐	☒
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 C.Y. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY)	☒	☐	☐
- 1 MOISTURE CONTENT TEST (BETWEEN $+3\%$ AND -3% OF OPTIMUM) FOR EACH 750 C.Y. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	☒	☐	☐

4. DUST CONTROL

ACTION TAKEN MOIST CONDITIONS - NO ACTION REQUIRED

5. LOCATION (APPROXIMATE) SEE ITEM 4

COORDINATES _____ TO _____
_____ TO _____

6. REMARKS * M.C. REQUIREMENT WAIVED BY FCR #2
** COMPACTION REQUIREMENT WAIVED BY FCR #1

INSPECTOR J. H. Swan DATE 10/31/90
REVIEWED BY J. Sumpardian DATE 10/31/90

PLACEMENT OF SLA MATERIAL

1. MATERIAL	ACCEPT	REJECT	N/A
- MATERIAL IS FREE OF LARGE PARTS OF RUSTED OR INTACT DRUMS	✓		
2. PLACEMENT			
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, AND OTHER OBSTRUCTIONS.	✓		
- MAXIMUM LOOSE LIFT OF 12 INCHES.	✓		
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	✓*		
- SURVEYOR VERIFY CONFIGURATION, SLOPES AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.			✓
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 C.Y. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY)	✓**		
- 1 MOISTURE CONTENT TEST (BETWEEN $+3\%$ AND -3% OF OPTIMUM) FOR EACH 750 C.Y. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	✓*		

4. DUST CONTROL

ACTION TAKEN MOIST CONDITIONS - NO ACTION REQUIRED

5. LOCATION (APPROXIMATE) SEE ITEM 4

COORDINATES _____ TO _____
_____ TO _____

6. REMARKS * M.C. REQUIREMENT WAIVED BY FCR #2
** COMPACTION REQUIREMENT WAIVED BY FCR #1

INSPECTOR [Signature]

DATE 11/1/90

REVIEWED BY [Signature]

DATE 11-2-90

PLACEMENT OF SLA MATERIAL

1. MATERIAL	ACCEPT	REJECT	N/A
- MATERIAL IS FREE OF LARGE PARTS OF RUSTED OR INTACT DRUMS	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, AND OTHER OBSTRUCTIONS.	<u>✓</u>	<u> </u>	<u> </u>
- MAXIMUM LOOSE LIFT OF 12 INCHES.	<u>✓</u>	<u> </u>	<u> </u>
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	<u>✓</u> *	<u> </u>	<u> </u>
- SURVEYOR VERIFY CONFIGURATION, SLOPES AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	<u> </u>	<u> </u>	<u>✓</u>
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 C.Y. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY)	<u>✓</u> **	<u> </u>	<u> </u>
- 1 MOISTURE CONTENT TEST (BETWEEN $+3\%$ AND -3% OF OPTIMUM) FOR EACH 750 C.Y. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	<u>✓</u> *	<u> </u>	<u> </u>

4. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

5. LOCATION (APPROXIMATE)

SEE ITEM 4

COORDINATES

TO

TO

6. REMARKS

* M.C. REQUIREMENT WAIVED BY FCR #2
** COMPACTION REQUIREMENT WAIVED BY FCR #1

INSPECTOR

[Signature]

DATE

11/2/90

REVIEWED BY

[Signature]

DATE

11-3-90

PLACEMENT OF SLA MATERIAL

FORM A-4 SLA
SHEET 1 OF 1
INSPECTION DATE

1. MATERIAL	ACCEPT	REJECT	N/A
- MATERIAL IS FREE OF LARGE PARTS OF RUSTED OR INTACT DRUMS	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, AND OTHER OBSTRUCTIONS.	<u>✓</u>	<u> </u>	<u> </u>
- MAXIMUM LOOSE LIFT OF 12 INCHES.	<u>✓</u>	<u> </u>	<u> </u>
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	<u>✓</u> <u>★</u>	<u> </u>	<u> </u>
- SURVEYOR VERIFY CONFIGURATION, SLOPES AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	<u> </u>	<u> </u>	<u>✓</u>
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 C.Y. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY)	<u>✓</u> <u>★★</u>	<u> </u>	<u> </u>
- 1 MOISTURE CONTENT TEST (BETWEEN $+3\%$ AND -3% OF OPTIMUM) FOR EACH 750 C.Y. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	<u>✓</u> <u>★</u>	<u> </u>	<u> </u>
4. DUST CONTROL			
ACTION TAKEN <u>NONE REQUIRED</u>			
5. LOCATION (APPROXIMATE) <u>SEE ITEM 4</u>			
COORDINATES <u> </u> TO <u> </u>			
<u> </u> TO <u> </u>			
6. REMARKS <u>★ M.C. WAIVED BY FOL #2</u>			
<u>★★ COMPACTION WAIVED BY FOL #1</u>			
INSPECTOR <u>[Signature]</u>		DATE <u>11/3/90</u>	
REVIEWED BY <u>[Signature]</u>		DATE <u>11-3-90</u>	

PLACEMENT OF SLA MATERIAL

FORM A-4 SLA
SHEET 1 OF 1
INSPECTION DATE

1. MATERIAL	ACCEPT	REJECT	N/A
- MATERIAL IS FREE OF LARGE PARTS OF RUSTED OR INTACT DRUMS	✓		
2. PLACEMENT			
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, AND OTHER OBSTRUCTIONS.	✓		
- MAXIMUM LOOSE LIFT OF 12 INCHES.	✓		
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	✓		
- SURVEYOR VERIFY CONFIGURATION, SLOPES AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.			✓
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 C.Y. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY)	✓		
- 1 MOISTURE CONTENT TEST (BETWEEN $+3\%$ AND -3% OF OPTIMUM) FOR EACH 750 C.Y. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	✓		
4. DUST CONTROL			
ACTION TAKEN	NONE REQUIRED		
5. LOCATION (APPROXIMATE)	SEE ITEM 4		
COORDINATES	_____ TO _____		
6. REMARKS	* M.C. WAIVED BY FCR #2 ** CONSTRUCTION WAIVED BY FCR #1		
INSPECTOR	[Signature]		
REVIEWED BY	[Signature]		
DATE	11/5/90		
DATE	11-5-90		

PLACEMENT OF SLA MATERIAL

FORM A-4 SLA
SHEET 1 OF 1
INSPECTION DATE

1. MATERIAL	ACCEPT	REJECT	N/A
- MATERIAL IS FREE OF LARGE PARTS OF RUSTED OR INTACT DRUMS	✓		
2. PLACEMENT			
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, AND OTHER OBSTRUCTIONS.	✓		
- MAXIMUM LOOSE LIFT OF 12 INCHES.	✓		
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	✓*		
- SURVEYOR VERIFY CONFIGURATION, SLOPES AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.			✓
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 C.Y. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY)	✓**		
- 1 MOISTURE CONTENT TEST (BETWEEN $+3\%$ AND -3% OF OPTIMUM) FOR EACH 750 C.Y. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	✓*		
4. DUST CONTROL			
ACTION TAKEN	NONE REQUIRED		
5. LOCATION (APPROXIMATE)	SEE ITEM 4		
COORDINATES	_____ TO _____ _____ TO _____		
6. REMARKS	* M.C. WAIVED BY FCR #2 ** CONACTION WAIVED BY FCR #1		
INSPECTOR	C. H. [Signature]		DATE 11/6/90
REVIEWED BY	[Signature]		DATE 11-7-90

PLACEMENT OF SLA MATERIAL

FORM A-4 ^{SLA}
SHEET 1 OF 1
INSPECTION DATE _____

1. MATERIAL	ACCEPT	REJECT	N/A
- MATERIAL IS FREE OF LARGE PARTS OF RUSTED OR INTACT DRUMS	☒	☐	☐
2. PLACEMENT			
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, AND OTHER OBSTRUCTIONS.	☒	☐	☐
- MAXIMUM LOOSE LIFT OF 12 INCHES.	☒	☐	☐
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	☒ *	☐	☐
- SURVEYOR VERIFY CONFIGURATION, SLOPES AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	☐	☐	☒
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 C.Y. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY)	☒ **	☐	☐
- 1 MOISTURE CONTENT TEST (BETWEEN $+3\%$ AND -3% OF OPTIMUM) FOR EACH 750 C.Y. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	☒ *	☐	☐
4. DUST CONTROL			
ACTION TAKEN <u>WORK REQUIRED</u>			
5. LOCATION (APPROXIMATE) <u>SKE ITEM 4</u>			
COORDINATES _____ TO _____			
_____ TO _____			
6. REMARKS <u>* M.C. WAIVED BY F.C.E. #2</u> <u>** COMPRESSION WAIVED BY F.C.E. #1</u>			
INSPECTOR <u>[Signature]</u>		DATE <u>11/7/90</u>	
REVIEWED BY <u>[Signature]</u>		DATE <u>11-8-90</u>	

PLACEMENT OF SLA MATERIAL

FORM A-4 SLA
SHEET 1 OF 1
INSPECTION DATE _____

1. MATERIAL	ACCEPT	REJECT	N/A
- MATERIAL IS FREE OF LARGE PARTS OF RUSTED OR INTACT DRUMS	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, AND OTHER OBSTRUCTIONS.	<u>✓</u>	<u> </u>	<u> </u>
- MAXIMUM LOOSE LIFT OF 12 INCHES.	<u>✓</u>	<u> </u>	<u> </u>
- INSPECT LAYER OF FILL FOR PROPER MOISTURE CONTENT ($\pm 3\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	<u>✓</u>	<u> </u>	<u> </u>
- SURVEYOR VERIFY CONFIGURATION, SLOPES AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	<u> </u>	<u> </u>	<u>✓</u>
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 C.Y. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 90% OF MAXIMUM DRY DENSITY)	<u>✓</u>	<u> </u>	<u> </u>
- 1 MOISTURE CONTENT TEST (BETWEEN $+3\%$ AND -3% OF OPTIMUM) FOR EACH 750 C.Y. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	<u>✓</u>	<u> </u>	<u> </u>

4. DUST CONTROL

ACTION TAKEN NONE REQUIRED

5. LOCATION (APPROXIMATE) SEE ITEM 4

COORDINATES TO
 TO

6. REMARKS * M.C. WAIVED BY F.C.E. 2 ** COMPACTION WAIVED BY F.C.E. 1

INSPECTOR [Signature]

DATE 11/12/90

REVIEWED BY [Signature]

DATE 11-10-90

EROSION AND SEDIMENT CONTROL

FORM A-5 SLA

SHEET _____ OF _____

INSPECTION DATE _____

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

ACCEPT

REJECT

N/A

✓ _____

3. PLACEMENT

- SILT FENCES, HAY BALES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓ _____

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

✓ _____

COORDINATES _____ TO SEE EROSION & SEDIMENT CONTROL PLAN

OTHER _____

4. REMARKS PER FCR NO. 8 EROSION & SEDIMENT
CONTROL PLAN NEED NOT BE APPROVED BY
NYS SOIL CONSERVATION SERVICE. ALL
RUNOFF CONTAINED WITHIN PROJECT LIMITS.

INSPECTOR

C. H. Swan

DATE

11/10/90

REVIEWED BY

D. Lempandian

DATE

11/10/90

EXCAVATION OF SLA

FORM A-2 SLA
SHEET _____ OF _____
INSPECTION DATE _____

	ACCEPT	REJECT	N/A
1. VERIFICATION INSPECTION			
- EXCAVATION OF SLA IS CARRIED TO SOIL/WASTE INTERFACE OR LIMITS SHOWN ON CONTRACT DRAWINGS.	☒	☐	☐
- SAMPLING GRID STAKED BY SURVEYOR.	☒	☐	☐
- INCREMENTAL EXCAVATION PERFORMED TO A DEPTH OF 1'-0" BASED UPON REVIEW OF TEST RESULTS OF SAMPLES.	☐	☐	☒

2. DUST CONTROL

ACTION TAKEN NO ACTION REQUIRED

3. LOCATION (APPROXIMATE) AS PER CONTRACT DRAWINGS.

COORDINATES _____ TO _____
_____ TO _____4. REMARKS _____

_____INSPECTOR C. D. SwanDATE 11/20/90REVIEWED BY J. LuepoldDATE 11/20/90

COLLECTION AND ANALYSIS OF SOIL SAMPLES

FORM A-3 SLA
SHEET 1 OF 3
INSPECTION DATE 11/20/90

	ACCEPT	REJECT	N/A
1. VERIFICATION INSPECTION			
- SOIL SAMPLES COLLECTED AS PER SAMPLING AND ANALYSIS PLAN FOR SLA REMEDIATION.	<u>✓</u>	<u> </u>	<u> </u>
- SOIL ANALYSES IS PERFORMED FOR INDICATOR COMPOUNDS.	<u>✓</u>	<u> </u>	<u> </u>
- SOIL ANALYSES IS PERFORMED FOR ROD CLEANUP CRITERIA.	<u>*</u>	<u> </u>	<u> </u>

2. DUST CONTROL

ACTION TAKEN NO ACTION REQUIRED3. LOCATION OF SAMPLING SEE ATTACHED SKETCHESCOORDINATES TO
 TO 4. REMARKS * ROD CRITERIA SAMPLES ANALYSIS
IS NOT YET COMPLETE

INSPECTOR

John LaneDATE 11-20-90

REVIEWED BY

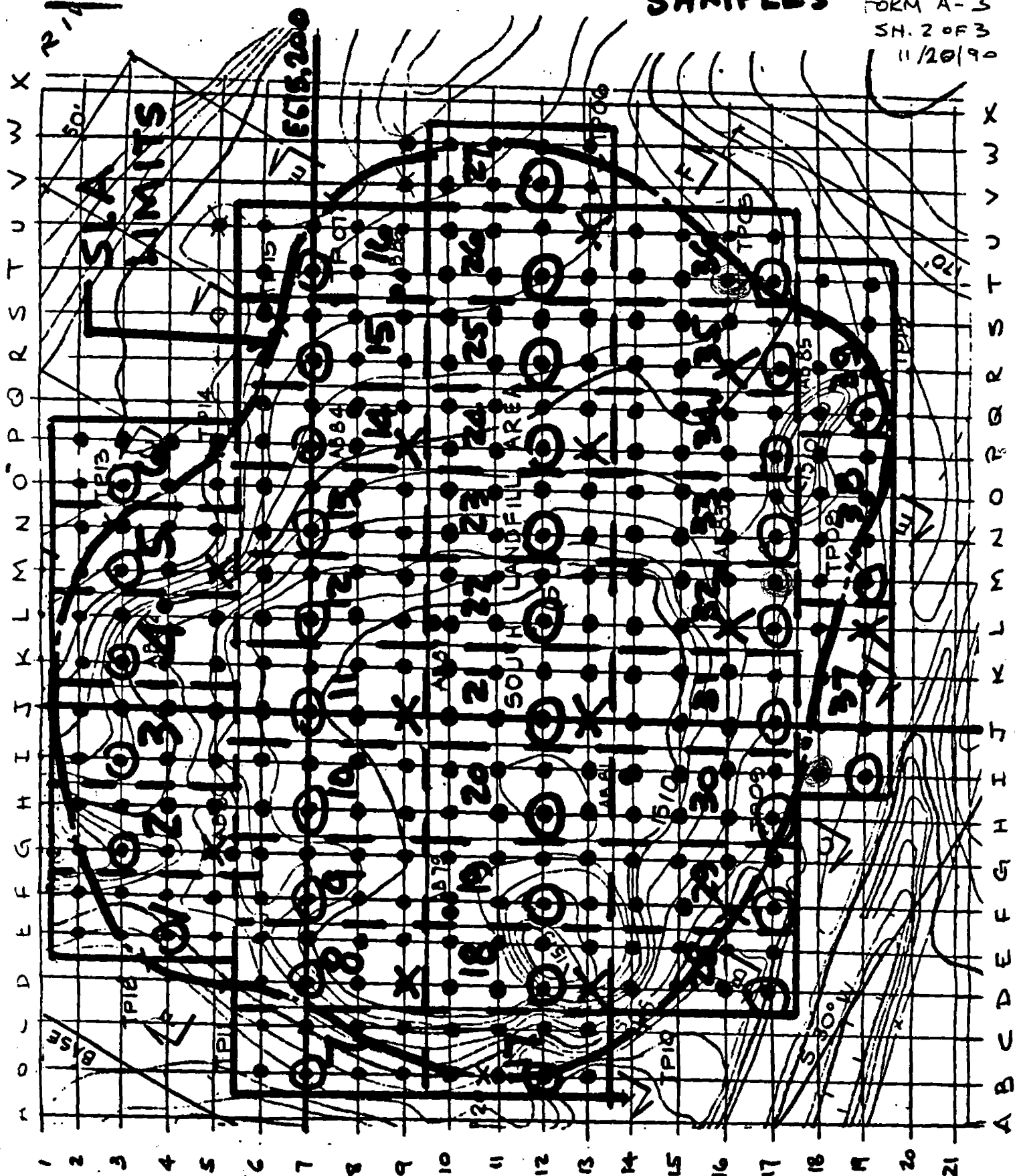
Diana LuyadionDATE 11-20-90

INDICATOR COMPOUND SAMPLES

FORM A-3

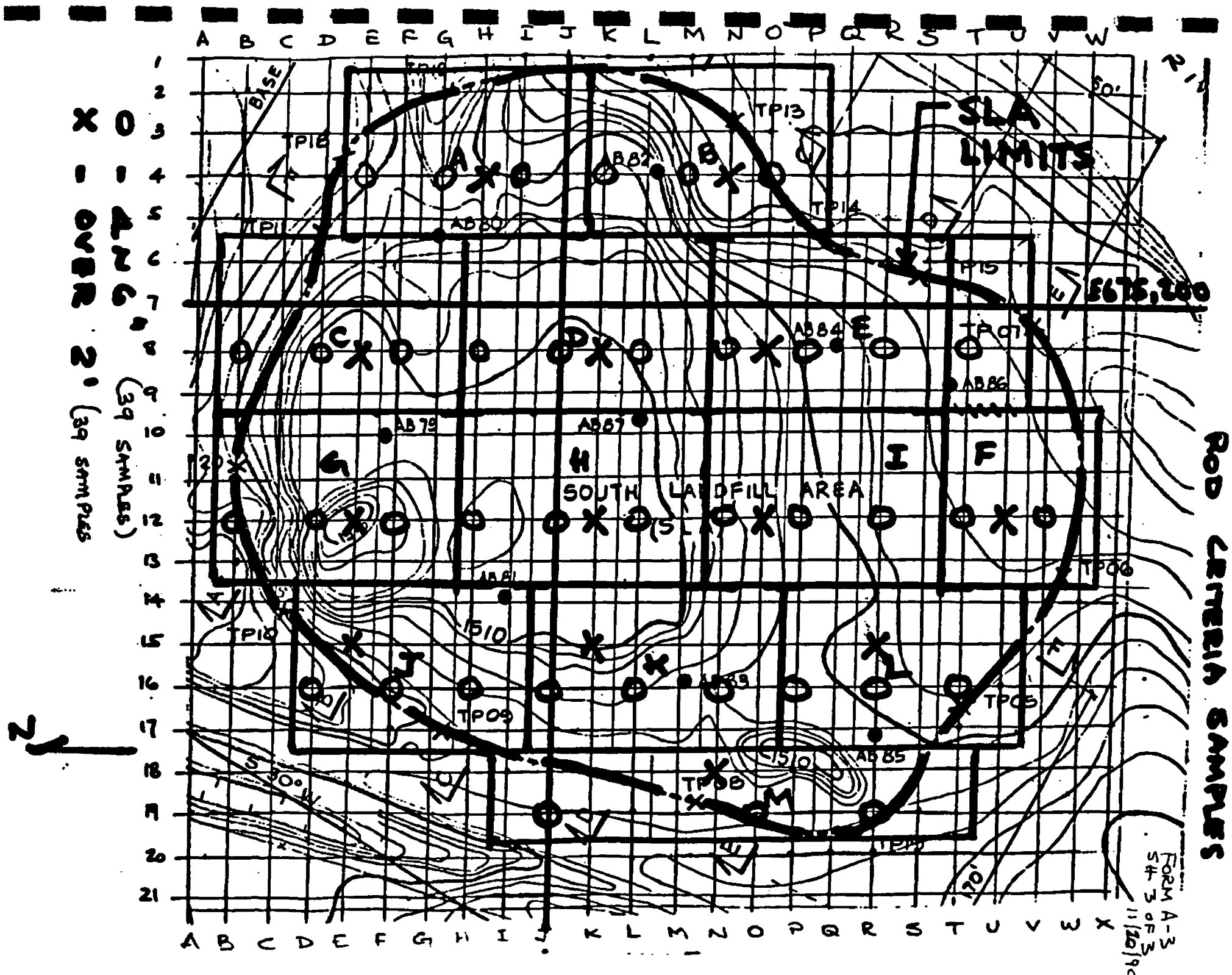
SH. 2 OF 3

11/20/90



● 4-6" SAMPLES (312 SAMPLES)
 ○ OVER 2' (39 SAMPLES)

LN 767,000



INSPECTION DATE

N/A

- _____

-

OTHER _____

- DATE 11 / 26 / 90

COVER SYSTEM

FORM A-6 SLA
SHEET _____ OF _____
INSPECTION DATE 11/26/90

	ACCEPT	REJECT	N/A
1. MATERIAL			
- MANUFACTURERS MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED (ATTACH COPY)	_____	✓ _____	_____
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE	✓ _____	_____	_____
2. PLACEMENT			
- SURFACE TO RECEIVE CSPE GEOMEMBRANE IS FREE OF DEBRIS	✓ * _____	_____	_____
- FINAL LOCATION OF GEOMEMBRANE COMPLIES WITH CONTRACT DRAWINGS	✓ _____	_____	_____
- INSTALLATION INCLUDING SEAMS IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS	✓ _____	_____	_____
3. VERIFICATION TESTING			
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM	✓ _____	_____	_____
4. GEOMEMBRANE LOCATION (APPROXIMATE)			
SLA MATERIAL STORAGE AREA AND SECTION 4			
OF TEST FILL			
5. REMARKS * REVISED TO PVC PER FCR # 4			

INSPECTOR

Q. A. Swann

DATE

11/26/90

REVIEWED BY

J. J. Murphy

DATE

11/26/90

RIP RAP

FORM A-8 DIKE EXT.

SHEET _____ OF _____

INSPECTION DATE _____

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS

ACCEPT

REJECT

N/A

✓		
✓		
✓		

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET

		✓
		✓

3. DUST CONTRCL

ACTION TAKEN: NONE REQUIRED

4. RIPRAP LOCATION

DIKE STATION N/A TO N/A.

5. REMARKS

INSPECTOR

C. H. Swan

DATE

11/20/90

REVIEWED BY

Jirau Sumpaduan

DATE

11/20/90

EROSION AND SEDIMENT CONTROL

FORM A-11 DIKE EXT.

SHEET _____ OF _____

INSPECTION DATE _____

	ACCEPT	REJECT	N/A
1. MATERIAL			
- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.	☒	☐	☐
2. PLACEMENT			
- SILT FENCES, HAY BALES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.	☒	☐	☐
3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.			
DIKE STATION <u>22+00</u> TO <u>27+00</u>			
OTHER _____			
4. REMARKS _____			

INSPECTOR <u>C. H. Swan</u>	DATE <u>11/20/90</u>		
REVIEWED BY <u>J. J. Padia</u>	DATE <u>11/20/90</u>		

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

2. PLACEMENT

- SILT FENCES, HAY BALES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

DIKE STATION 22+00 TO 27+00

OTHER _____

4. REMARKS _____

INSPECTOR C. H. Swan

DATE 11/20/90

REVIEWED BY J. J. Padia

DATE 11/20/90

FILL MATERIAL ABOVE WATER SURFACE

1. MATERIAL	ACCEPT	REJECT	N/A
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	<u>✓</u>	<u> </u>	<u> </u>
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	<u> </u>	<u> </u>	<u>✓</u>
- EXISTING GRADE IS SCARIFIED	<u>✓</u>	<u> </u>	<u> </u>
- MAXIMUM LOOSE LIFT OF 12"	<u>✓</u>	<u> </u>	<u> </u>
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	<u>✓</u>	<u> </u>	<u> </u>
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	<u>✓</u>	<u> </u>	<u> </u>
3. VERIFICATION TESTING <i>* SEE ATTACHED TEST RESULTS</i>			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	<u>✓</u>	<u> </u>	<u> </u>
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	<u>✓</u>	<u> </u>	<u> </u>
4. DUST CONTROL ACTION TAKEN: <u>NONE REQUIRED</u>			
5. FILL LOCATION DIKE STATION <u>22+00</u> TO <u>27+00</u>			
6. REMARKS _____			
INSPECTOR <u>A. H. Swann</u>	DATE <u>11/21/90</u>		
REVIEWED BY <u>J. J. Sumpardian</u>	DATE <u>11/21/90</u>		

RIP RAP

	ACCEPT	REJECT	N/A
1. MATERIAL			
- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.	☒	☐	☐
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES	☒	☐	☐
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS	☒	☐	☐
2. PLACEMENT			
- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES	☐	☐	☒ NA
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET	☐	☐	☒ NA
3. DUST CONTROL			
ACTION TAKEN: <u>NONE REQUIRED</u>			
4. RIPRAP LOCATION			
DIKE STATION _____ TO _____			
5. REMARKS <u>RECEIVED RIP RAP AND PLACED IN STOCKPILE - NO PLACEMENT ON DIKE AS YET</u>			

INSPECTOR C. H. Sloan DATE 11/21/90
REVIEWED BY J. S. Sempadian DATE 11/21/90

FILL MATERIAL ABOVE WATER SURFACE

1. MATERIAL	ACCEPT	REJECT	N/A
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	<u>✓</u>	<u> </u>	<u> </u>
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	<u> </u>	<u> </u>	<u>✓</u>
- EXISTING GRADE IS SCARIFIED	<u>✓</u>	<u> </u>	<u> </u>
- MAXIMUM LOOSE LIFT OF 12"	<u>✓</u>	<u> </u>	<u> </u>
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	<u>✓</u>	<u> </u>	<u> </u>
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	<u>✓</u>	<u> </u>	<u> </u>
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	<u>✓</u>	<u> </u>	<u> </u>
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	<u>✓</u>	<u> </u>	<u> </u>
4. DUST CONTROL ACTION TAKEN: <u>NONE REQUIRED</u>			
5. FILL LOCATION DIKE STATION <u>22+00</u> TO <u>27+00</u>			
6. REMARKS <u>TEST RESULTS ATTACHED</u>			
INSPECTOR <u>J. Sumpster</u>	DATE <u>11/23/90</u>		
REVIEWED BY <u>[Signature]</u>	DATE <u>11/25/90</u>		

FIELD IN-PLACE DENSITY TEST REPORT



- ☐ 585 TROY-SCHENECTADY RD., LATHAM, NY 12110 516-783-1555
- ☐ 8-6167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716-649-8110
- ☐ 105 CORONA AVENUE, GROTON, NY 13073 607-898-5881
- ☐ 303 CLEVELAND AVENUE, HIGHLAND PARK, NJ 08904 201-848-5200
- ☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14467 716-359-1960

Project: Wellsville Report No. _____

Client: OHM Date: 11-21-90

Contractor: OHM Job No. _____

Test No.	Date of Test	Depth or Elevation	In-place Density (pcf)	In-place Moisture (%)	% Compaction	Proctor Code	Location and Remarks
1	11/21/90	2 ND DAY	127.0	10.5	99.1	TP-1	STA 25+70 (DIKE)
2	"	"	128.9	9.6	100+	"	STA 25+10 "
3	"	"	129.2	9.9	100+	"	STA 24+50 "
4	"	"	127.6	10.0	99.5	"	STA 23+70 "

Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source
TP-1	128.2		Babit Pit - CLAY

Remarks: NUCLEAR method used

Technician Time: 10⁰⁰ - 2⁰⁰

Don Wilson

Respectfully submitted,

EMPIRE SOILS INVESTIGATIONS, INC.

FIELD IN-PLACE DENSITY TEST REPORT (WORK SHEET ONLY)



- ☐ 585 TROY-SCHENECTADY RD., LATHAM, NY 12110 518-783-1555
- ☐ S-5167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716-649-8110
- ☐ 105 CORONA AVENUE, GROTON, NY 13073 607-698-5881
- ☐ 303 CLEVELAND AVENUE, HIGHLAND PARK, NJ 08904 201-846-5200
- ☐ 535 SUMMIT POINT DRIVE, P.O. BOX 453, HENRIETTA, NY 14467 716-359-1960

PROJECT: Wellsville DATE: 11-21-90

CLIENT: OHm JOB NO. _____

CONTRACTOR: OHm TYPE OF MATERIAL: CLAY

PROCTOR TEST DATA MAX. DENSITY: 128.2 OPTIMUM MOISTURE CONTENT: _____

NUCLEAR STANDARD COUNTS DENSITY: _____					MOISTURE: _____				
TEST NUMBER	1	2	3	4					
ELEVATION	2 ND DAY								
DEPTH AND MODE	8"								
DENSITY COUNT	1077	1053	1034	1079					
MOISTURE COUNT	156	147	151	150					
WET DENSITY (PCF)	140.4	141.3	142.0	140.3					
DRY DENSITY (PCF)	127.0	128.9	129.2	127.6					
MOISTURE (PCF)	13.3	12.4	12.8	12.7					
PERCENT MOISTURE	10.5	9.6	9.9	10.0					
PERCENT COMPACTION	99.1	100+	100+	99.5					

LOCATION OR REMARKS			
TEST NO.		TEST NO.	
1	STA 25+70 (Dike)		
2	STA 25+80 (Dike)		
3	STA 24+50 (Dike)		
4	STA 23+70 (Dike)		

BY: _____ REVIEWED BY: _____

INSPECTION TIME: _____ DATE: _____

(SAND CONE)

☐ 585 TROY-SCHENECTADY RD., LATHAM, NY 12110 518-783-1555
☐ 8-6167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716-649-8110
☐ 105 CORONA AVENUE, GROTON, NY 13073 607-898-5881
☐ 303 CLEVELAND AVENUE, HIGHLAND PARK, NJ 08904 201-646-5200
☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14467 716-359-1980

Wellsville

OHM

OHm

[illegible]

Remarks: SAND CONE method used

Technician Time: 12:00 - 2:00

Don W ~~W~~

Respectfully submitted,

EMPIRE SOILS INVESTIGATIONS, INC.

FIELD IN PLACE DENSITY TESTS (SAND CONE)

ECT: Wellsville DATE: 11-21-90
OHm JOB NO: _____
 RACTOR: OHm TYPE OF MATERIAL: CLAY
 TOR TEST DATA: MAXIMUM DENSITY: _____ pcf OPTIMUM WATER CONTENT: _____

TEST NUMBER			TEST #4		
Depth Below Grade or Elevation	CALIBRATION		~~2ND DAY~~		
SAND DENSITY	80.66		80.66		
WT. OF SAND & JAR (Before)	13.78	13.63	13.62		
WT. OF SAND & JAR (After)	4.85	10.29	6.22		
WT. OF SAND IN HOLE AND CONE (b-c)	8.93		7.40		
WT. OF SAND IN CONE	3.34	3.34	3.34		
WT. OF SAND IN HOLE (d-e)	5.59		4.06		
VOLUME OF HOLE (f/a)	0.0693		0.0503		
PAN NUMBER					
WT. OF WET SOIL + PAN					
WT. OF DRY SOIL + PAN					
WT. OF PAN					
WT. OF WATER (i-j)					
WT. OF DRY SOIL (i-k)					
MOISTURE CONTENT(100 x l/m) or (Speedy)					
WT. OF WET SOIL + CONTAINER					
WT. OF CONTAINER					
WT. OF WET SOIL (o-p)					
WET DENSITY (q/g)			6.88		
% + 3/4" MATERIAL (wt of +3/4 mat'l x 100/q)			136.77		
CORRECTED WET DENSITY (See Chart)					
DRY DENSITY (r or t/l +n)					
PERCENT COMPACTION					

NO.	LOCATION and REMARKS
1	STA 23+70 (DIKE)

CTION TIME:

INSPECTOR.

EMPIRE

OILS INVESTIGATIONS INC.

- Project: Wellsville Report No. _____
Client: OHM Date: 11-22-90
Contractor: OHM Job No. _____

marks: nuclear method used

EMPIRE SOILS INVESTIGATIONS, INC.

Technician Time: 10⁰⁰ - 2⁰⁰

Don Wadsworth

FIELD IN-PLACE DENSITY TEST REPORT (WORK SHEET ONLY)



- ☐ 585 TROY SCHENECTADY RD., LATHAM, NY 12110 518-783-1555
- ☐ S-5167 SOUTH PARK AVENUE, P.O. BOX 0813, HAMBURG, NY 14075 716-649-6110
- ☐ 105 CORONA AVENUE, GROTON, NY 13073 607-698-5881
- ☐ 303 CLEVELAND AVENUE, HIGHLAND PARK, NJ 08904 201-848-5200
- ☐ 535 SUMMIT POINT DRIVE, P.O. BOX 458, HENRIETTA, NY 14467 716-359-1960

PROJECT: Wellsville DATE: 11-22-90

CLIENT: OHM JOB NO. _____

CONTRACTOR: OHM TYPE OF MATERIAL: CLAY

PROCTOR TEST DATA MAX. DENSITY: 128.2 OPTIMUM MOISTURE CONTENT: _____

NUCLEAR STANDARD COUNTS DENSITY: _____				MOISTURE: _____			
TEST NUMBER	1	2	3	4			
ELEVATION	3 rd ~~dry~~						
DEPTH AND MODE	8"						
DENSITY COUNT	1058	1193	1142	1098			
MOISTURE COUNT	167	165	171	172			
WET DENSITY (PCF)	141.7	137.0	138.6	140.2			
DRY DENSITY (PCF)	127.5	122.9	124.0	125.5			
MOISTURE (PCF)	14.2	14.0	14.6	14.7			
PERCENT MOISTURE	11.2	11.4	11.8	11.7			
PERCENT COMPACTION	99.4	95.9	96.7	97.8			

LOCATION OR REMARKS

TEST NO.		TEST NO.	
1	STA 24+90 (DIKE)		
2	STA 24+40 (DIKE)		
3	STA 23+95 (DIKE)		
4	STA 23+45 (DIKE)		

BY: _____ REVIEWED BY: _____

INSPECTION TIME: _____ DATE: _____

FILL MATERIAL ABOVE WATER SURFACE

1. MATERIAL	ACCEPT	REJECT	N/A
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	☒	☐	☐
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	☒	☐	☐
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	☒	☐	☐
- EXISTING GRADE IS SCARIFIED	☒	☐	☐
- MAXIMUM LOOSE LIFT OF 12"	☒	☐	☐
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	☒	☐	☐
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	☒	☐	☐
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	☐	☐	☒
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	☐	☐	☒
4. DUST CONTROL ACTION TAKEN: <u>NONE REQUIRED</u>			
5. FILL LOCATION DIKE STATION <u>22+00</u> TO <u>27+00</u>			
6. REMARKS <u>SMALL AMOUNT DIKE FILL PLACED FROM SLOPE TRIMMING - NO TESTS REQUIRED.</u>			
INSPECTOR <u>C. D. Swan</u>		DATE <u>11/26/90</u>	
REVIEWED BY <u>J. J. Spadina</u>		DATE <u>11/26/90</u>	

GEOTEXTILE

*1 OF 2 GREEN
FILTER FABRIC*

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 11/26/90

1. MATERIAL

ACCEPT REJECT N/A

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED (ATTACH COPY)
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE

SEE PREVIOUS

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.
- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.
- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3. VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

4. GEOTEXTILE LOCATION

DIKE STATION 26+00 TO 27+00

5. REMARKS

INSPECTOR

A. H. Swan

DATE

REVIEWED BY

D. Chaudhary

DATE

11/26/90

BEDDING

FORM A-7 /
SHEET 1 OF 1
INSPECTION DATE 11/26/90

1. MATERIAL

ACCEPT REJECT N/A

- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

✓
✓
✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

✓

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. BEDDING LOCATION

DIKE STATION 26+50 TO 27+00

5. REMARKS

INSPECTOR

C. A. Swan

DATE

11/26/90

REVIEWED BY

J. S. Sweeney

DATE

11/26/90

RIP RAP

FORM A-8

SHEET 1 OF 1

INSPECTION DATE 11/26/90

1. MATERIAL

ACCEPT

REJECT

N/A

- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.

✓

- FREE FROM DIRT, SAND, CLAY AND ROCK FINES

✓

- MATERIALS COMPLY WITH GRADATION REQUIREMENTS

✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES

✓

- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET

✓

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. RIPRAP LOCATION

DIKE STATION TO

5. REMARKS RIP RAP RECEIVED AND PLACED IN STOCKPILE

INSPECTOR

C. H. Swan

DATE

11/26/90

REVIEWED BY

Humpadiaz

DATE

11/26/90

RIP RAP

FORM A-8 DIKE EXT
SHEET ____ OF ____
INSPECTION DATE ____

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS

ACCEPT

REJECT

N/A

✓

✓

✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET

✓

✓

3. DUST CONTROL

ACTION TAKEN:

NONE REQUIRED

4. RIPRAP LOCATION

DIKE STATION

26 + 80

TO

27 + 00

5. REMARKS

INSPECTOR

C. H. Swan

DATE

11/27/90

REVIEWED BY

J. S. S. S. S.

DATE

11/27/90

BEDDING

FORM A-7 DIKE EXT.
SHEET _____ OF _____
INSPECTION DATE _____

1. MATERIAL

ACCEPT REJECT N/A

- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

✓		
✓		
✓		

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

✓		

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. BEDDING LOCATION

DIKE STATION 23+50 TO 26+00

5. REMARKS

FILL STAKES USED TO GUIDE
BACKHOE OPERATOR IN MAINTAINING
SPECIFIED THICKNESS

INSPECTOR

C. A. Swan

DATE

11/27/90

REVIEWED BY

D. Sumpadiaz

DATE

11/27/90

GEOTEXTILE

FORM A-6 DIKE EXT.
SHEET 1 OF 1
INSPECTION DATE 11/27/90

1. MATERIAL

- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED (ATTACH COPY)
- FREE FROM DEFECTS, RIPS, HOLES, FLAW, DETERIORATION OR DAMAGE

ACCEPT REJECT N/A

2. PLACEMENT

- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.
- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.
- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

3. VERIFICATION TESTING

- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.

4. GEOTEXTILE LOCATION

DIKE STATION 23+50 TO 24+50

5. REMARKS FILTER FABRIC ON DIKE EXTENSION SLOPE.

INSPECTOR [Signature]
REVIEWED BY [Signature]

DATE _____
DATE 11/27/90

EROSION AND SEDIMENT CONTROL

FORM A-11 DIKE EXT.
SHEET _____ OF _____
INSPECTION DATE 11/27/90

	ACCEPT	REJECT	N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

☒	☐	☐

2. PLACEMENT

- SILT FENCES, HAY BALES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

☒	☐	☐

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

DIKE STATION 22 + 00 TO 27 + 00

OTHER _____

4. REMARKS

INSPECTOR C. A. Swan

DATE 11/27/90

REVIEWED BY J. S. S. S. S.

DATE 11/27/90

FORM A-6 DIKE EXT.
SHEET 1 OF 1
INSPECTION DATE 11/29/90

ACCEPT REJECT N/A

-

✓		
✓		
✓		

✓		
		NA

11/30/90

11/30/90

BEDDING

FORM A-7 DIKE EXT.
SHEET 1 OF 1
INSPECTION DATE 11/30/90

	ACCEPT	REJECT	N/A
1. MATERIAL			
- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.	✓		
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.	✓		
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.	✓		
2. PLACEMENT			
- FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.	✓		
3. DUST CONTROL			
ACTION TAKEN: <u>NONE REQUIRED</u>			
4. BEDDING LOCATION			
DIKE STATION <u>23+75</u> TO <u>24+50</u>			
5. REMARKS			

INSPECTOR C. H. Swan DATE 11/30/90
REVIEWED BY J. Stupadiar DATE 11/30/90

RIP RAP

	ACCEPT	REJECT	N/A
1. MATERIAL			
- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.	☒	☐	☐
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES	☒	☐	☐
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS	☒	☐	☐
2. PLACEMENT			
- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3,-0 INCHES	☒	☐	☐
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET	☒	☐	☐
3. DUST CONTRCL			
ACTION TAKEN: <u>NONE REQUIRED</u>			
4. RIPRAP LOCATION			
DIKE STATION <u>24+75</u> TO <u>26+00</u>			
5. REMARKS			

INSPECTOR C. H. Swan DATE 11/30/90
REVIEWED BY Stumpadiay DATE 11/30/90

EXCAVATION FOR KEY TRENCH/
TOE PROTECTION TRENCH

FORM A-3 *Dike EXT.*
SHEET 1 OF 1

INSPECTION DATE 11/30/90

	ACCEPT	REJECT	N/A
1. VERIFICATION INSPECTION			
- EXCAVATION IS MONITORED AND SAMPLED AS PER SAMPLING AND ANALYSIS PLAN.	<u>✓</u>	<u> </u>	<u> </u>
- LOCATION, ALIGNMENT, CONFIGURATION AND DIMENSIONS CONFORM WITH THE CONTRACT DRAWINGS.	<u>✓</u>	<u> </u>	<u> </u>
- BOTTOM OF KEY TRENCH OR TOE PROTECTION TRENCH (WHERE IT IS VISIBLE) FREE OF ORGANIC MATERIALS.	<u>✓</u>	<u> </u>	<u> </u>

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. KEY TRENCH/TOE PROTECTION TRENCH LOCATION

DIKE STATION 22+30 : TO 22+80

4. REMARKS TOE TRENCH ONLY

INSPECTOR

C. H. Swan

DATE

11/30/90

REVIEWED BY

J. Supradian

DATE

11/30/90

GEOTEXTILE

FORM A-6 DIKE EXT
SHEET 1 OF 1
INSPECTION DATE 11/30/90

	ACCEPT	REJECT	N/A
1. MATERIAL			
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED (ATTACH COPY)	<u> </u>	<u> </u>	<u>✓</u>
- FREE FROM DEFECTS, RIPS, HOLES, FLAW, DETEIORATION OR DAMAGE	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT <i>OF FILTER FABRIC</i>			
- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.	<u>✓</u>	<u> </u>	<u> </u>
- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.	<u>✓</u>	<u> </u>	<u> </u>
- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.	<u>✓</u>	<u> </u>	<u> </u>
3. VERIFICATION TESTING			
- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.	<u>✓</u>	<u> </u>	<u> </u>
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.	<u> </u>	<u> </u>	<u>NA</u>

4. GEOTEXTILE LOCATION

DIKE STATION 22+70 TO 22+80

5. REMARKS TOP TRENCH ONLY

INSPECTOR *John S. ...*

REVIEWED BY *J. ...*

DATE 11/30/90

DATE 11/30/90

BEDDING

FORM A-7, DIKE EXT.
SHEET 1 OF 1
INSPECTION DATE 11/30/90

1. MATERIAL

- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

ACCEPT	REJECT	N/A
☒	☐	☐
☒	☐	☐
☒	☐	☐

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

☒	☐	☐

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. BEDDING LOCATION

DIKE STATION 22+30 TO 22+80

5. REMARKS

INSPECTOR C. A. Swan DATE 11/30/90
REVIEWED BY J. J. Spadary DATE 11/30/90

RIP RAP

FORM A-8 DIKE EXT.

SHEET 1 OF 1INSPECTION DATE 11/30/90

1. MATERIAL

ACCEPT REJECT N/A

- RIPRAP OBTAINED FROM
QUARRY ACCEPTED BY
CONSTRUCTION MANAGER.

✓

- FREE FROM DIRT, SAND, CLAY
AND ROCK FINES

✓

- MATERIALS COMPLY WITH GRADATION
REQUIREMENTS

✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS
OF RIPRAP AS SHOWN ON DRAWINGS
WITH A TOLERANCE OF
+3, -0 INCHES

✓

- MATERIAL DEPOSITED FROM
HEIGHT OF LESS THAN 2 FEET

✓

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. RIPRAP LOCATION

DIKE STATION 22+30 TO 22+80

5. REMARKS

TOP FRENCH ONLY

INSPECTOR

C. H. Swan

DATE

11/30/90

REVIEWED BY

J. J. J. J. J.

DATE

11/30/90

RIP RAP

	ACCEPT	REJECT	N/A
1. MATERIAL			
- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.	☒	☐	☐
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES	☒	☐	☐
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS	☐	☐	☐
2. PLACEMENT			
- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES	☒	☐	☐
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET	☒	☐	☐
3. DUST CONTROL			
ACTION TAKEN: <u>NONE REQUIRED</u>			
4. RIPRAP LOCATION			
DIKE STATION <u>23+10</u> TO <u>23+50</u>			
5. REMARKS <u>TOP TRENCH ONLY</u>			

INSPECTOR C. H. Swan DATE 12/1/90
 REVIEWED BY J. Simpatian DATE 12/1/90

BEDDING

FORM A-7 DIKE EXT.

SHEET _____ OF _____
INSPECTION DATE 12/1/90

1. MATERIAL

- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

ACCEPT REJECT N/A

_____	_____	_____
_____	_____	_____
_____	_____	_____

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

✓	_____	_____

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. BEDDING LOCATION

DIKE STATION 23+10 TO 23+50

5. REMARKS

TOE TRENCH ONLY

INSPECTOR

C. H. Swan

DATE

12/1/90

REVIEWED BY

J. Sempadion

DATE

12/1/90

RIP RAP

FORM A-8 DIKE EXT.

SHEET 1 OF 1

INSPECTION DATE 12/3/90

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS

ACCEPT

REJECT

N/A

✓

✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET

✓

✓

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. RIPRAP LOCATION

DIKE STATION 23+50 TO 23+75

5. REMARKS

TOE TRENCH ONLY - ONLY TWO ROAD TRIPS INSTEAD OF THREE WITH QUARRY TRUCKS DUE TO BAD WEATHER (SNOW & SLUSH)

INSPECTOR

[Signature]

DATE

12/3/90

REVIEWED BY

[Signature]

DATE

12/4/90

RIP RAP

	ACCEPT	REJECT	N/A
1. MATERIAL			
- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.	✓		
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES	✓		
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS	✓		
2. PLACEMENT			
- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES	✓		
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET	✓		
3. DUST CONTROL			
ACTION TAKEN: <u>NONE REQUIRED</u>			
4. RIPRAP LOCATION			
DIKE STATION <u>22+80</u> ^{&} <u>TO</u> <u>24+50</u>			
5. REMARKS			

INSPECTOR C. H. Swanson DATE 12/1/90
REVIEWED BY Greg J. [Signature] DATE 12/1/90

BEDDING

	ACCEPT	REJECT	N/A
1. MATERIAL			
- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.	<u>✓</u>	<u> </u>	<u> </u>
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.	<u>✓</u>	<u> </u>	<u> </u>
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.	<u>✓</u>	<u> </u>	<u> </u>
3. DUST CONTROL			
ACTION TAKEN: <u> NONE REQUIRED </u>			
4. BEDDING LOCATION			
DIKE STATION <u>23+50</u> TO <u>23+75</u>			
5. REMARKS			
<u> / </u>			
<u> </u>			
<u> </u>			
<u> </u>			
<u> </u>			

INSPECTOR *C. B. Sullivan* DATE 12/4/90
 REVIEWED BY *J. Luyard* DATE 12/4/90

RIP RAP

ACCEPT REJECT N/A

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS

✓		
✓		
✓		

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET

✓		
✓		

3. DUST CONTROL

ACTION TAKEN: NONE - REQUIRED

4. RIPRAP LOCATION

DIKE STATION 23 + 60 TO 24 + 75

5. REMARKS

INSPECTOR

A. H. Swan

DATE

12/4/90

REVIEWED BY

J. J. Simpson

DATE

12/4/90

EROSION AND SEDIMENT CONTROL

FORM A-11 *Dike Ext.*
SHEET _____ OF _____
INSPECTION DATE 12/4/90

1. MATERIAL

ACCEPT REJECT N/A

- MANUFACTURER'S LABEL OR CERTIFICATE COMPLIES WITH CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓ _____

2. PLACEMENT

- SILT FENCES, HAY BALES AND OTHER EROSION CONTROL MEASURES ARE INSTALLED AS SHOWN ON CERTIFIED EROSION AND SEDIMENT CONTROL PLAN.

✓ _____

3. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.

DIKE STATION 22+00 TO 27+00

OTHER _____

4. REMARKS

INSPECTOR

C. B. Swan

DATE

12/4/90

REVIEWED BY

J. L. Padon

DATE

12/4/90

RIP RAP

ACCEPT REJECT N/A

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS

✓
✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3,-0 INCHES
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET

✓
✓

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. RIPRAP LOCATION

DIKE STATION 24+25 TO 24+75

5. REMARKS

INSPECTOR

C. H. Swan

DATE

12/5/90

REVIEWED BY

J. Suenadien

DATE

12/5/90

FILL MATERIAL ABOVE WATER SURFACE

1. MATERIAL	ACCEPT	REJECT	N/A
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	☒	☐	☐
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	☒	☐	☐
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	☐	☐	☒
- EXISTING GRADE IS SCARIFIED	☒	☐	☐
- MAXIMUM LOOSE LIFT OF 12"	☐	☐	☐
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	☒	☐	☐
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	☒	☐	☐
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	☒	☐	☐
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	☒	☐	☐

4. DUST CONTROL ACTION TAKEN: NONE REQUIRED

5. FILL LOCATION DIKE STATION 22 + 75 TO 26 + 50

6. REMARKS _____

INSPECTOR *D. J. Murphy* DATE 12/6/90

REVIEWED BY *Ray J. Smith* DATE 12/6/90

FIELD IN-PLACE DENSITY TEST REPORT



- ☐ 585 TROY-SCHENECTADY RD., LATHAM, NY 12110 518-783-1555
- ☐ S-5167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716-649-8110
- ☐ 105 CORONA AVENUE, GROTON, NY 13073 607-898-5881
- ☐ 303 CLEVELAND AVENUE, HIGHLAND PARK, NJ 08904 201-846-5200
- ☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14467 716-359-1960

Project: Wellsville Report No. _____
 Client: OHM Date: 12-6-90
 Contractor: OHM Job No. _____

Test No.	Date of Test	Depth or Elevation	In-place Density (pcf)	In-place Moisture (%)	% Compaction	Proctor Code	Location and Remarks
1	12-6-90	1 st LIFT OF DAY	126.7	10.2	98.8	TP-1	DIKE STATION 22+75
2	"	1 st LIFT OF DAY	125.2	6.9	97.6	"	" " 23+75
3	"	1 st LIFT OF DAY	122.1	10.1	95.2	"	" " 24+75
4	"	1 st LIFT OF DAY	125.2	10.6	97.6	"	" " 25+75
5	"	2 nd LIFT OF DAY	122.2	10.5	95.3	"	" " 22+80
6	"	3 rd LIFT OF DAY	123.0	9.5	95.9	"	" " 22+50
7	"	2 nd LIFT OF DAY	124.3	10.3	97.0	"	" " 26+40
8	"	2 nd LIFT OF DAY	123.4	12.7	96.3	"	" " 25+60
9	"	3 rd LIFT OF DAY	126.1	9.5	98.3	"	" " 25+55
10	"	3 rd LIFT OF DAY	122.1	11.3	95.2	"	" " 26+50

Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source
TP-1	128.2		Babit Pit - CLAY

Remarks: NUCLEAR method used
 Technician Time: 10⁰⁰ AM - 3⁰⁰ PM
 Technician: LARRY BLAS

Respectfully submitted,
 EMPIRE SOILS INVESTIGATIONS, INC.

BEDDING

	ACCEPT	REJECT	N/A
1. MATERIAL			
- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.	☒	☐	☐
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.	☒	☐	☐
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.	☒	☐	☐
2. PLACEMENT			
- FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.	☒	☐	☐

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. BEDDING LOCATION

DIKE STATION 23+50 TO 25+50

5. REMARKS

INSPECTOR

[Signature]

DATE

12/7/90

REVIEWED BY

[Signature]

DATE

12/7/90

BEDDING

FORM A-7 DIKE EXT
SHEET _____ OF _____
INSPECTION DATE 12/8/90

1. MATERIAL

ACCEPT REJECT N/A

- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.

✓		
✓		
✓		

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.

✓		

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. BEDDING LOCATION

DIKE STATION 25+50 TO 27+00

5. REMARKS

INSPECTOR

[Signature]

DATE

12/8/90

REVIEWED BY

[Signature]

DATE

12/10/90

RIP RAP

FORM A-8 *DIKE EXT*
SHEET 1 OF 1
INSPECTION DATE 12/8/90

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS

ACCEPT REJECT N/A

☒	☐	☐
☒	☐	☐
☒	☐	☐

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3, -0 INCHES
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET

☒	☐	☐
☒	☐	☐

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. RIPRAP LOCATION

DIKE STATION 22+50 TO 24+50

5. REMARKS

INSPECTOR

[Signature]

DATE

12/8/90

REVIEWED BY

[Signature]

DATE

12/15/90

RIP RAP

ACCEPT REJECT N/A

1. MATERIAL

- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS

✓
✓
✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3,-0 INCHES
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET

3. DUST CONTROL

ACTION TAKEN: NONE REQUIRED

4. RIPRAP LOCATION

DIKE STATION 24 + 50 TO 27 + 00

5. REMARKS

INSPECTOR

[Signature]

DATE

12/12/90

REVIEWED BY

[Signature]

DATE

12/12/90

DISPOSAL OF CONTAMINATED MATERIAL

FORM A-12 DIKE EXT.

SHEET _____ OF _____

INSPECTION DATE 12/12/90

ACCEPT REJECT N/A

1. VERIFICATION INSPECTION

- LOCATION, CONFIGURATION AND MATERIALS USED FOR THE CONTAMINATED MATERIAL DISPOSAL AREA ARE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. (PRIOR TO PLACEMENT OF CONTAMINATED MATERIALS)

_____ ✓

- CONTAMINATED MATERIAL STORAGE AREA IS COVERED WITH A LAYER OF CLEAN MATERIAL IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS (AFTER COMPLETION OF WEST DIKE EXCAVATION)

_____ ✓

2. DUST CONTROL

ACTION TAKEN _____

3. CONTAMINATED MATERIAL STORAGE AREA LOCATION (APPROXIMATE)

4. REMARKS CONTAMINATED MATERIAL EXCAVATED -

AND DISPOSED IN ACCORDANCE WITH

SLA REMEDIATION SEE FORM A-2

AND A-3 OF SLA EXCAVATION ATTACHED.

INSPECTOR

J. J. MurphyDATE 12/12/90

REVIEWED BY

Mary J. SmithDATE 12/13/90

EXCAVATION OF SLA

FORM A-2 SLA
SHEET _____ OF _____
INSPECTION DATE _____

	ACCEPT	REJECT	N/A
1. VERIFICATION INSPECTION			
- EXCAVATION OF SLA IS CARRIED TO SOIL/WASTE INTERFACE OR LIMITS SHOWN ON CONTRACT DRAWINGS.	☒	☐	☐
- SAMPLING GRID STAKED BY SURVEYOR.	☒	☐	☐
- INCREMENTAL EXCAVATION PERFORMED TO A DEPTH OF 1'-0" BASED UPON REVIEW OF TEST RESULTS OF SAMPLES.	☐	☐	☒

2. DUST CONTROL

ACTION TAKEN NO ACTION REQUIRED

3. LOCATION (APPROXIMATE) AS PER CONTRACT DRAWINGS.

COORDINATES _____ TO _____
_____ TO _____4. REMARKS _____

_____INSPECTOR C. D. SwanDATE 11/20/90REVIEWED BY J. L. S. L. S. L. S.DATE 11/20/90

COLLECTION AND ANALYSIS OF SOIL SAMPLES

FORM A-3 SLA
SHEET 1 OF 3
INSPECTION DATE 11/20/90

	ACCEPT	REJECT	N/A
1. VERIFICATION INSPECTION			
- SOIL SAMPLES COLLECTED AS PER SAMPLING AND ANALYSIS PLAN FOR SLA REMEDIATION.	<u>✓</u>	<u> </u>	<u> </u>
- SOIL ANALYSES IS PERFORMED FOR INDICATOR COMPOUNDS.	<u>✓</u>	<u> </u>	<u> </u>
- SOIL ANALYSES IS PERFORMED FOR ROD CLEANUP CRITERIA.	<u>*</u>	<u> </u>	<u> </u>

2. DUST CONTROL

ACTION TAKEN NO ACTION REQUIRED3. LOCATION OF SAMPLING SEE ATTACHED SKETCHESCOORDINATES TO
 TO 4. REMARKS * ROD CRITERIA SAMPLES ANALYSIS
IS NOT YET COMPLETE

INSPECTOR

John LaneDATE 11-20-90

REVIEWED BY

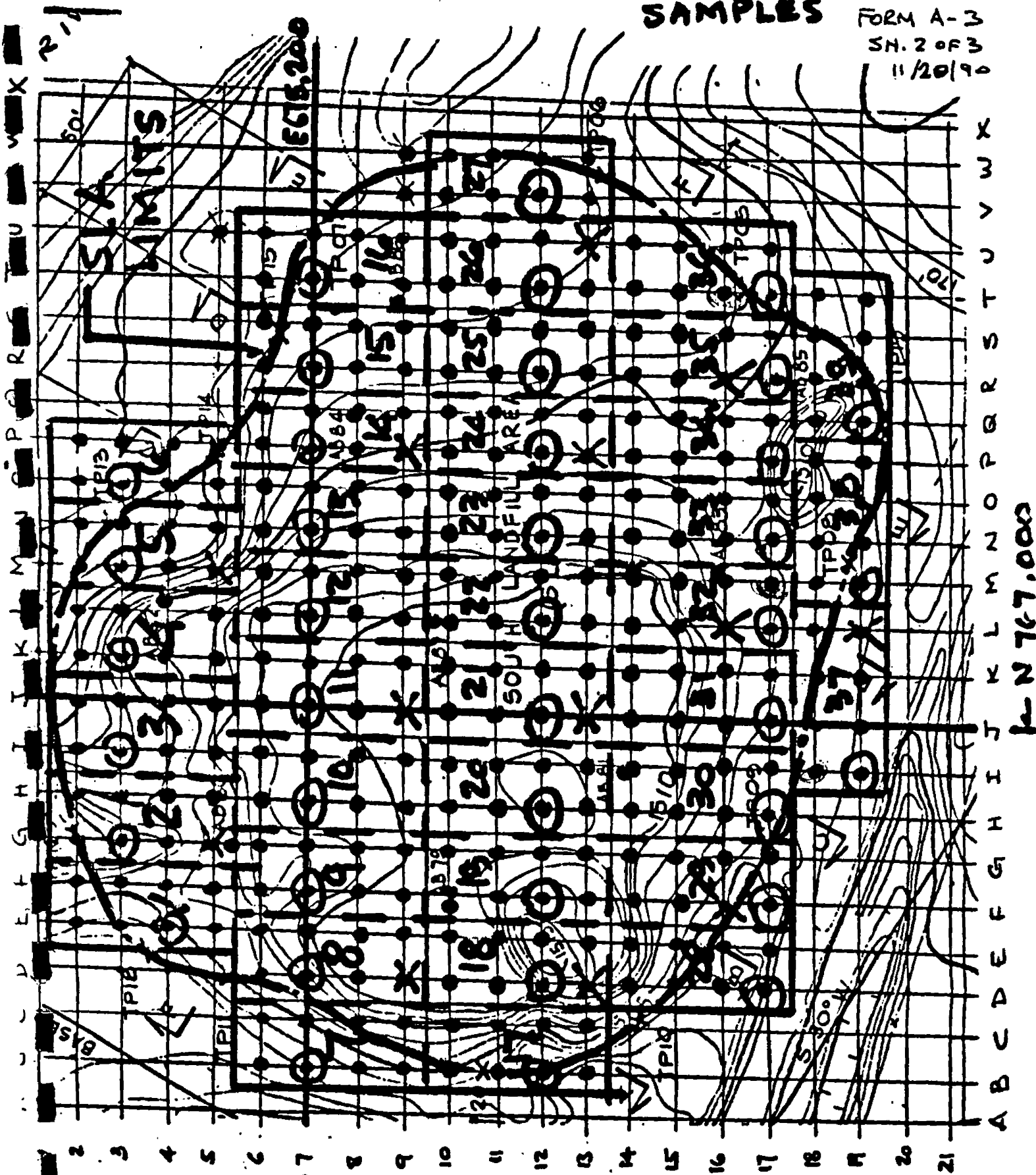
Diane LempertDATE 11-20-90

SAMPLES

FORM A-3

SH. 2 OF 3

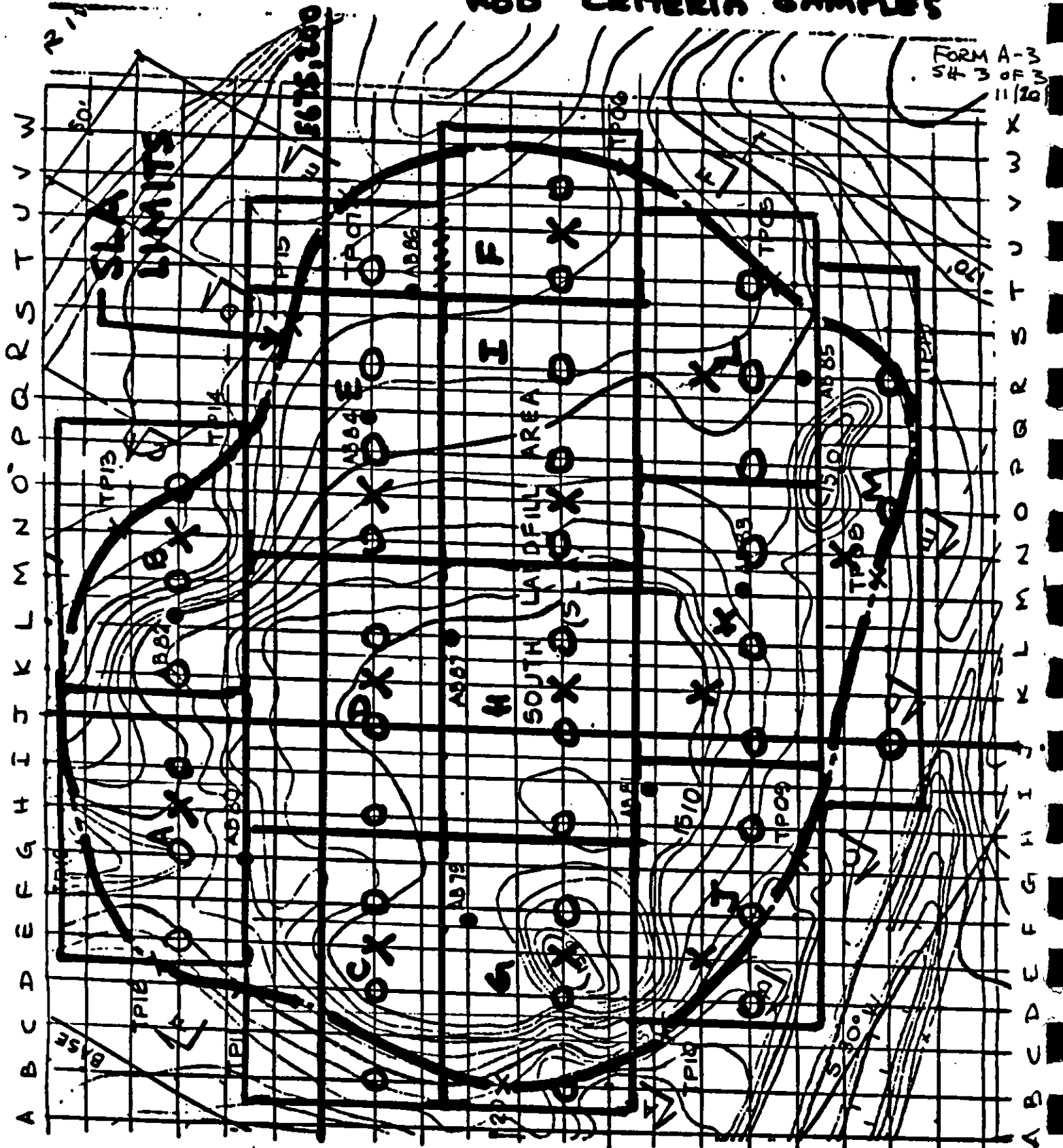
11/20/90



• 4-6" SAMPLES (312 SAMPLES)
 ○ OVER 21 (39 SAMPLES)

ROD CRITERIA SAMPLES

FORM A-3
54 3 OF 3
11/20



0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21

X - OVER 2' (39 SAMPLES)

(39 SAMPLES)

2



PROJECT: Sinclair Refinery
CLIENT: OHM Corporation
DATE: December 7, 1990
PROJECT NO: BT-90-367
REPORT NO: L-1

REPORT OF MATERIAL TESTING

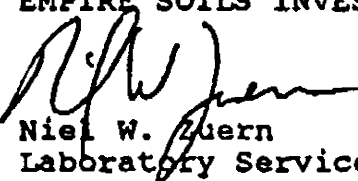
MATERIAL: Four (4) separate samples of Gravel; some Sand; little Silt; little Clay from the Babbitt Pit, collected by Empire Soils Investigations, Inc. on November 21, 1990 from on-site.

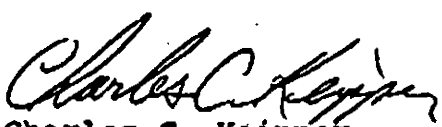
MECHANICAL ANALYSIS: ASTM D-422.

<u>Component</u>	<u>Percent of Sample</u>			
	<u>S-1</u>	<u>S-2</u>	<u>S-3</u>	<u>S-4</u>
Gravel	40.1	38.5	38.1	43.2
Sand	28.4	27.1	27.4	26.0
Silt	16.6	17.9	17.4	16.2
Clay	14.9	16.5	17.0	14.5

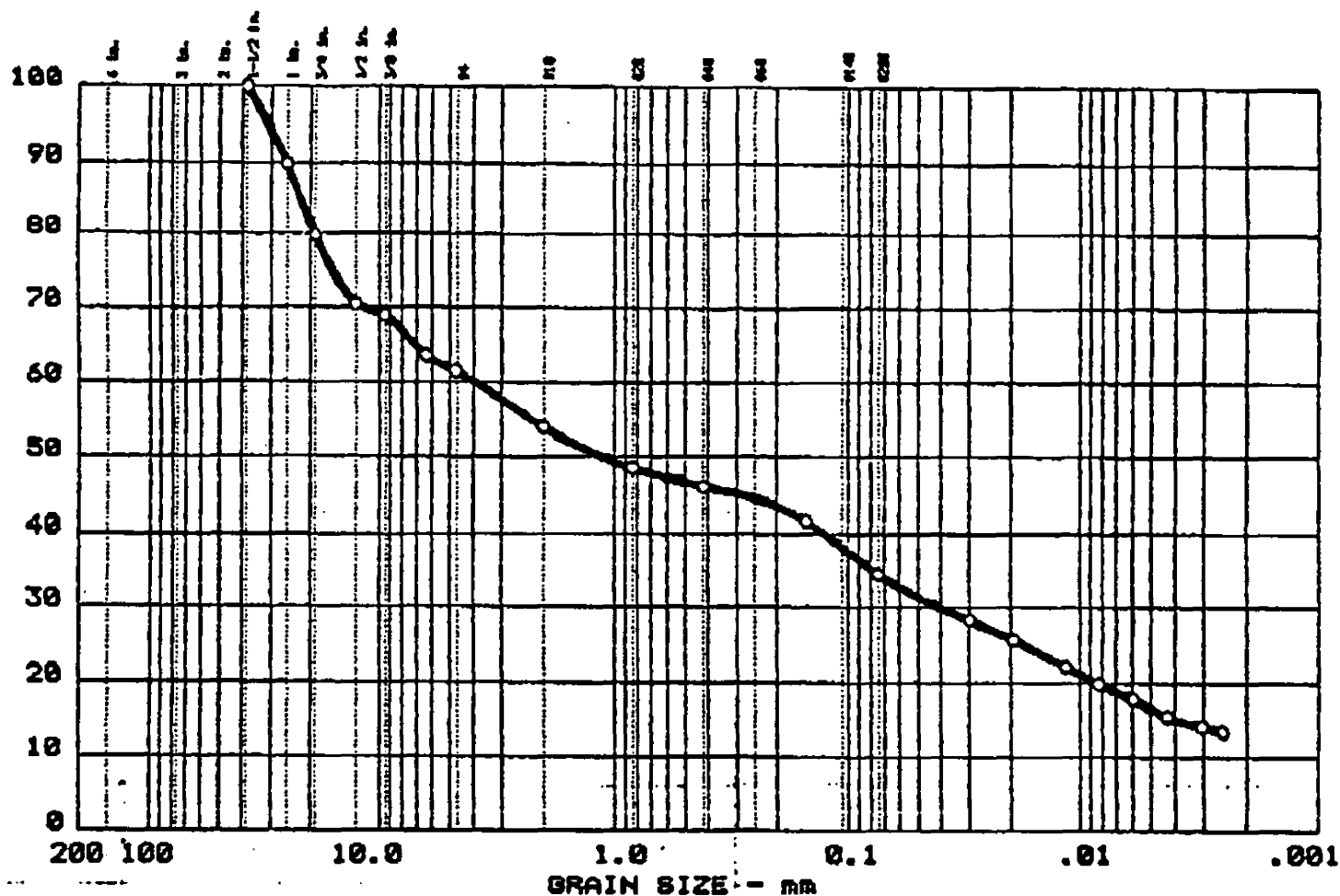
For details concerning these tests, please refer to the attached laboratory data forms.

Respectfully submitted,
EMPIRE SOILS INVESTIGATIONS, INC.

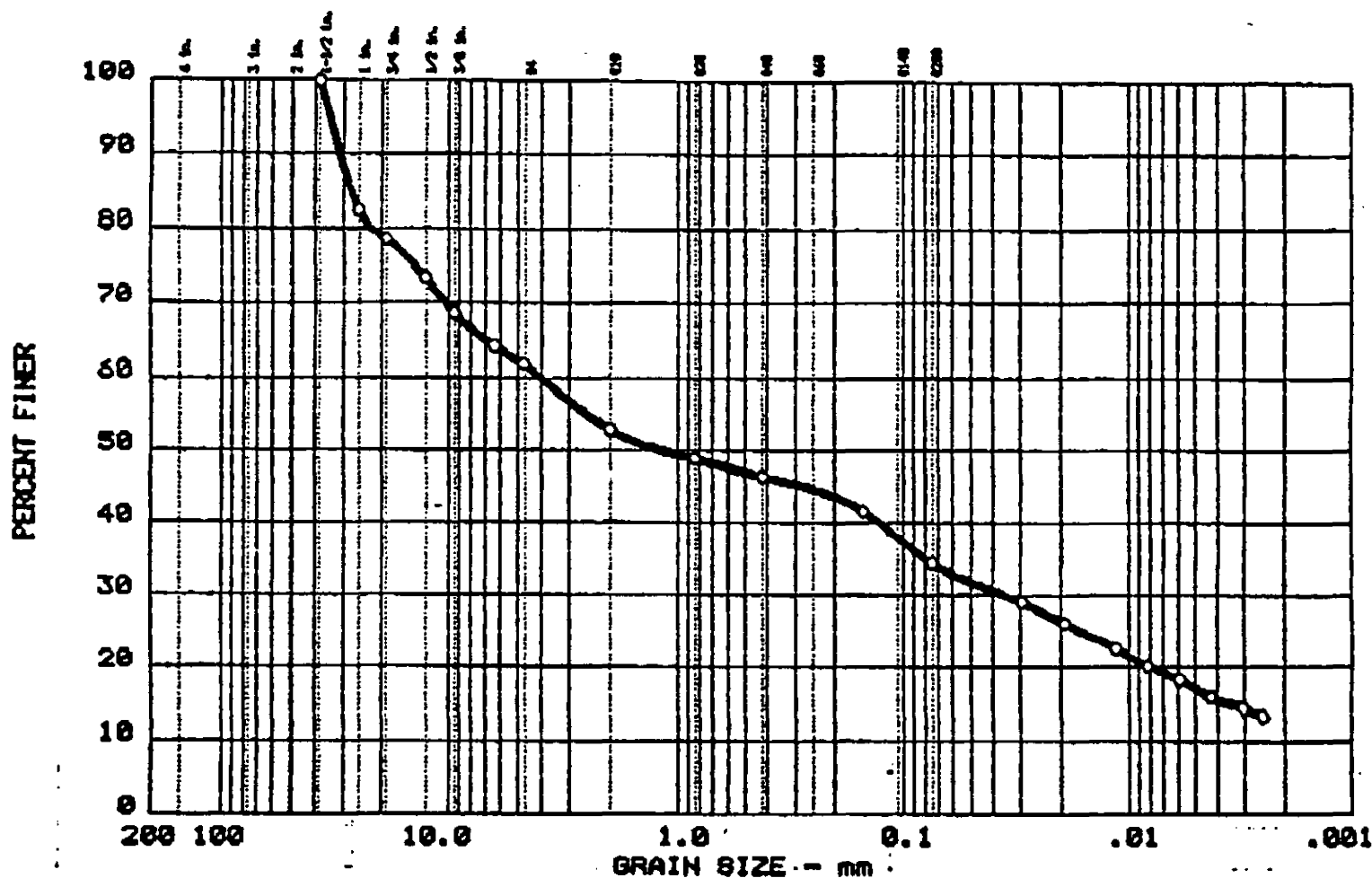

Niel W. Zuern
Laboratory Services Manager


Charles C. Keipper
Testing Services Manager

GRAIN SIZE DISTRIBUTION TEST REPORT



GRAIN SIZE DISTRIBUTION TEST REPORT



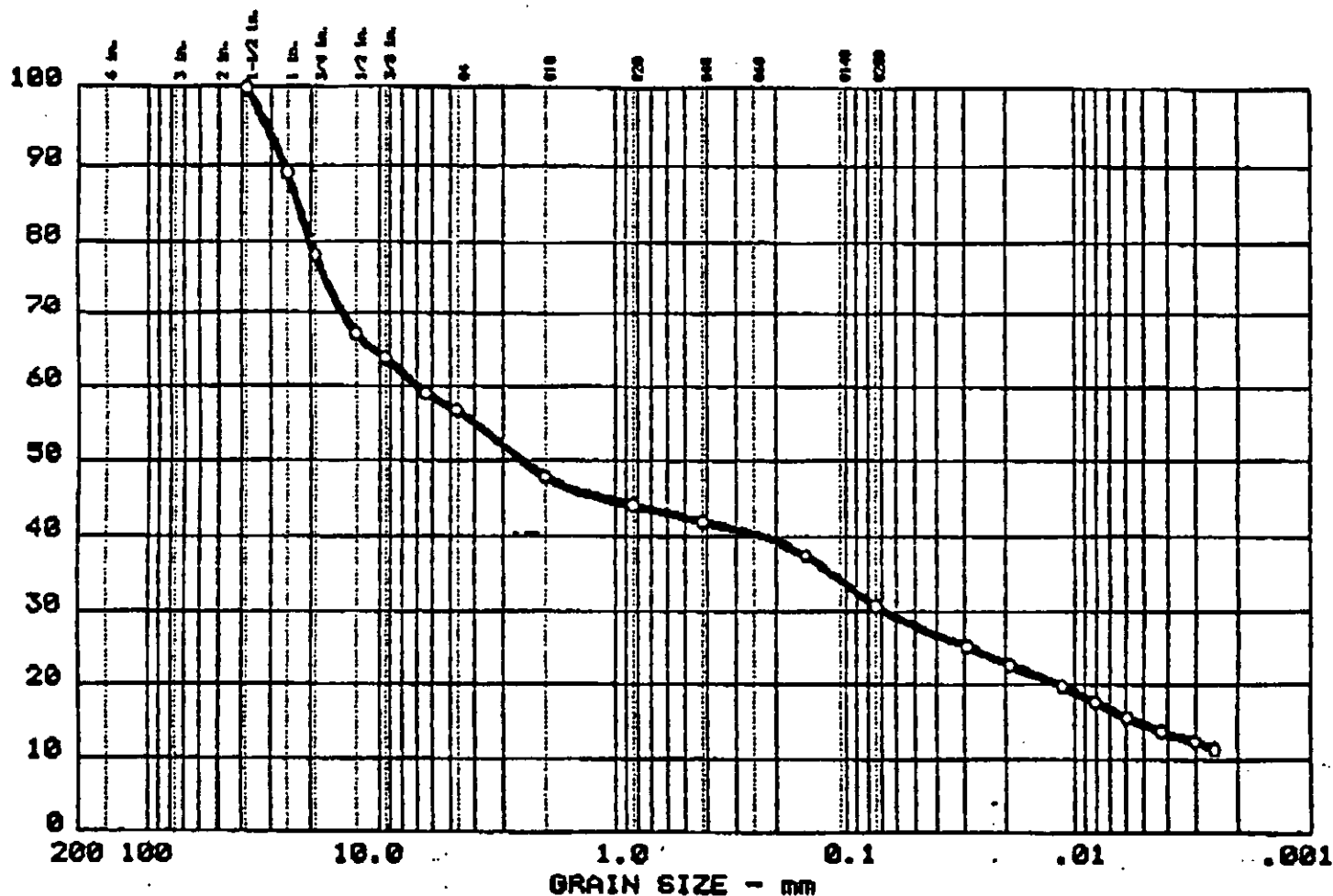
Test	%+3"	% GRAVEL	% SAND	% SILT	% CLAY
6	0.0	38.1	27.4	17.4	17.0

LL	PI	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
		27.54	3.94	1.12	0.035	0.0033			

MATERIAL DESCRIPTION	USCS	AASHTO
0 GRAVEL; SOME SAND; LITTLE SILT; LITTLE CLAY	GM	

Project No.: BT-90-367 Project: ARCO-SINCLAIR REFINERY Location: BABBITT PIT Date: 12-7-90	Remarks: COLLECTED BY ESI ON 11-2/-90 FROM ON-SITE PROJECT SAMPLE #8-3
GRAIN SIZE DISTRIBUTION TEST REPORT EMPIRE SOILS INVESTIGATIONS, INC.	Fig. No. 3

GRAIN SIZE DISTRIBUTION TEST REPORT



Test	%+3"	% GRAVEL	% SAND	% SILT	% CLAY
7	0.0	43.2	26.0	16.2	14.5

LL	PI	D ₉₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
		22.75	6.87	2.47	0.067	0.0054			

MATERIAL DESCRIPTION	USCS	AASHTO
GRAVEL; SOME SAND; LITTLE SILT; LITTLE CLAY	GM	

Project No.: BT-90-367 Project: ARCO-SINCLAIR REFINERY Location: BABBITT PIT Date: 12-7-90	Remarks: COLLECTED BY ESI ON 11-2/-90 FROM ON-SITE PROJECT SAMPLE #8-4
GRAIN SIZE DISTRIBUTION TEST REPORT EMPIRE SOILS INVESTIGATIONS, INC.	Fig. No. 4



PROJECT: ARCO - Sinclair Refinery Sub #E-10570
Supplement #1

CLIENT: Ebasco Services Incorporated

DATE: December 12, 1990

PROJECT NO: BD-90-138A

REPORT NO: L-1

REPORT OF MATERIAL TESTING

MATERIAL: Sample of on-site Brown Sand; little Gravel
and Fines, collected by Empire Soils Investi-
gations, Inc. from on-site.

MECHANICAL ANALYSIS: ASTM D-422.

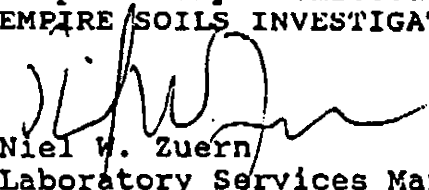
<u>Sieve Size</u>	<u>Percent Finer</u>
2"	100.0
1-1/2"	93.6
3/4"	91.1
1/2"	90.5
3/8"	88.2
#4	87.2
#10	86.0
#20	80.4
#40	70.1
#60	60.0
#100	38.7
#200	10.3

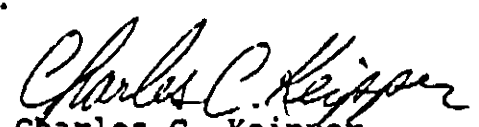
MAXIMUM DENSITY - OPTIMUM MOISTURE: ASTM D-698, Method A

Maximum Density	75.6 pcf.
Optimum Moisture	27.2 %

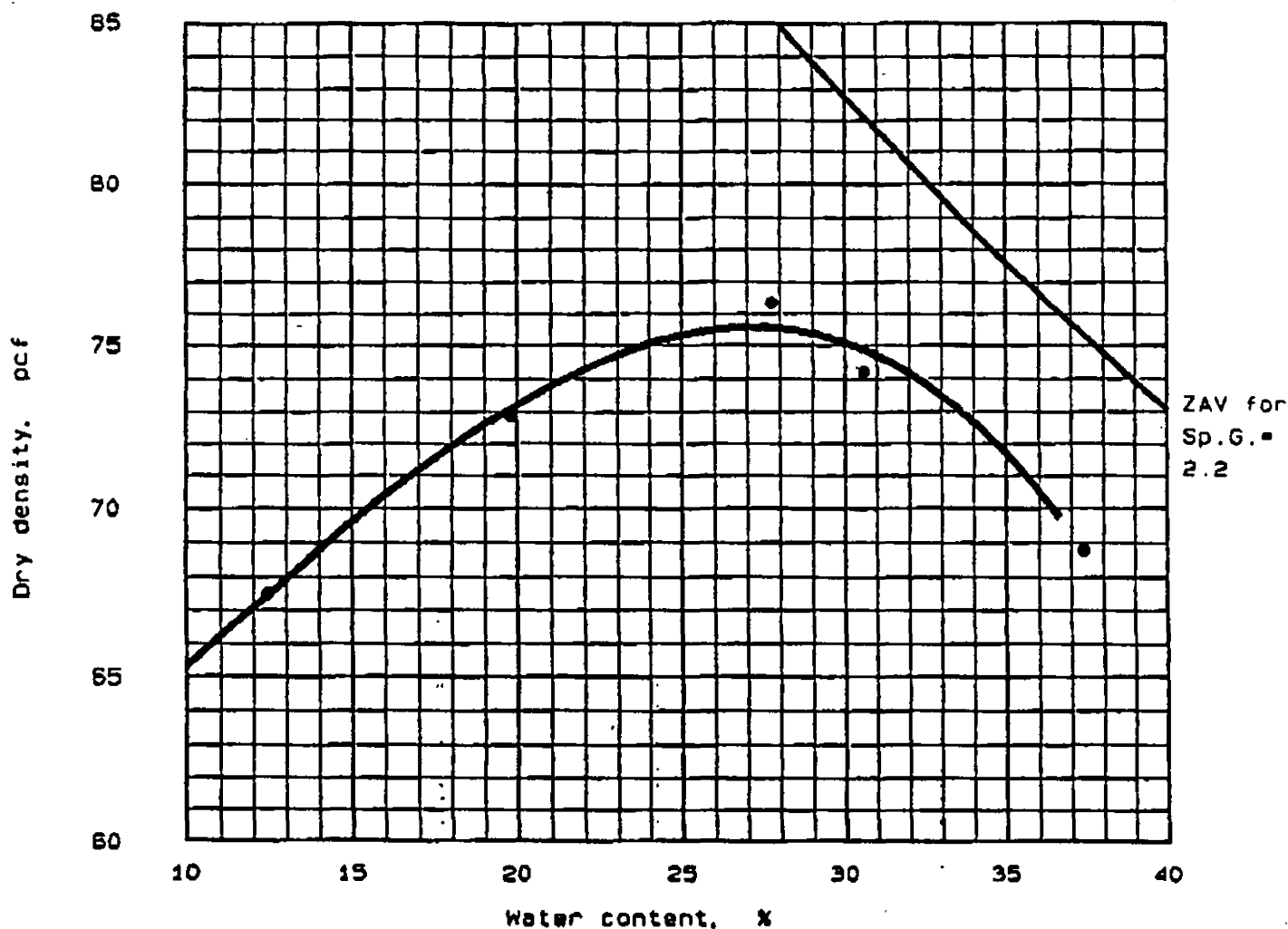
For details concerning these tests, please refer to the
attached laboratory data forms.

Respectfully submitted,
EMPIRE SOILS INVESTIGATIONS, INC.


Niel W. Zuern
Laboratory Services Manager
11


Charles C. Keipper
Testing Services Manager

PROCTOR TEST REPORT



"Standard" Proctor, ASTM D 698, Method A

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > No. 4	% < No. 200
	USCS	AASHTO						
							12.8 %	10.3 %

TEST RESULTS	MATERIAL DESCRIPTION
Optimum moisture = 27.2 % Maximum dry density = 75.6 pcf	BROWN SAND, little gravel and fines
Project No.: :80-90-138 A Project: SINCLAIR REFINERY, WELLSVILLE, NY Location: On-Site Date: NOVEMBER 28, 1990	Remarks: LAB NO. 587.001 REPORT: L-1B
PROCTOR TEST REPORT EMPIRE SOILS INVESTIGATIONS, INC.	Figure No. _____

EXCAVATION FOR KEY TRENCH/
TOE PROTECTION TRENCH

INSPECTION DATE _____

	ACCEPT	REJECT	N/A
1. VERIFICATION INSPECTION			
- EXCAVATION IS MONITORED AND SAMPLED AS PER SAMPLING AND ANALYSIS PLAN.	☒	☐	☐
- LOCATION, ALIGNMENT, CONFIGURATION AND DIMENSIONS CONFORM WITH THE CONTRACT DRAWINGS.	☒	☐	☐
- BOTTOM OF KEY TRENCH OR TOE PROTECTION TRENCH (WHERE IT IS VISIBLE) FREE OF ORGANIC MATERIALS.	☒	☐	☐

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. KEY TRENCH/TOE PROTECTION TRENCH LOCATION

DIKE STATION 22+00 TO 27+00

4. REMARKS _____

INSPECTOR C. H. Swan DATE 11/20/90
REVIEWED BY J. Supendian DATE 11/20/90

TOPSOIL STRIPPING

FORM A-2 DIKE EXT.

SHEET _____ OF _____

INSPECTION DATE _____

1. VERIFICATION INSPECTION	ACCEPT	REJECT	N/A
- TOPSOIL AND ORGANIC MATERIAL WITHIN DIKE FOUNDATION AREA REMOVED TO A MINIMUM OF 6 INCH DEPTH.	<u>✓</u>	<u> </u>	<u> </u>
- DIKE FOUNDATION AREA IS FREE OF ORGANIC MATERIAL.	<u>✓</u>	<u> </u>	<u> </u>
- STRIPPING IS MONITORED AS PER SAMPLING & ANALYSIS PLAN	<u>✓</u>	<u> </u>	<u> </u>

2. DUST CONTROL

ACTION TAKEN NONE REQUIRED

3. LOCATION (APPROXIMATE)

DIKE STATION 22+00 TO 27+00

4. REMARKS

INSPECTOR

C. A. Swan

DATE

11/20/90

REVIEWED BY

Jumpadiaz

DATE

11/20/90

CLEARING AND GRUBBING

FORM A-1 DIKE ERT.
SHEET 1 OF 1
INSPECTION DATE 11/20/90

1. VERIFICATION INSPECTION

ACCEPT REJECT N/A

- AREA TO BE CLEARED IS STAKED BY THE SURVEY CREWS TO CONFORM WITH THE CONTRACT DRAWINGS.
- DIKE FOUNDATION AREA IS STAKED AT 50' MAXIMUM SPACING ALONG DIKE AND ELEVATIONS AND LOCATIONS ARE RECORDED.
- AREA IS FREE OF TREES, BRUSH, LOGS, LIMB WOOD, RUBBISH AND OTHER OBSTRUCTIONS.
- STUMPS, ROOTS LARGER THAN 1-1/2 INCHES IN DIAMETER AND DECAYED MATTER REMOVED TO AN 18" DEPTH FROM AREA REQUIRING GRUBBING.

✓		
✓		
✓		
✓		

2. DUST CONTROL

ACTION TAKEN

NONE REQUIRED

3. LOCATION (APPROXIMATE)

DIKE STATION 22+00 TO 27+00

4. REMARKS

INSPECTOR

C. H. Swan

DATE

11/20/90

REVIEWED BY

J. Sempadian

DATE

11/20/90

FIELD IN-PLACE DENSITY TEST REPORT



☐ 585 TROY SCHENECTADY RD., LATHAM, NY 12110 518-783-1555
☐ 55167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716-649-8110
☐ 105 CORONA AVENUE, GROTON, NY 13073 607-898-5881
☐ 303 CLEVELAND AVENUE, HIGHLAND PARK, NJ 08904 201-646-5200
☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14457 716-359-1960

Project: Wellsville Report No. _____

Client: OHM Date: 11-20-90

Contractor: OHM Job No. _____

Test No.	Date of Test	Depth or Elevation	In-place Density (pcf)	In-place Moisture (%)	% Compaction	Proctor Code	Location and Remarks
1	11/20/90	1 ST LIFT	122.4	8.6	95.5	TP-1	STA 24+90 (Dike)
2	"	"	122.9	9.5	95.8	TP-1	STA 24+50 "
3	"	"	125.6	10.3	98.0	TP-1	STA 24+00 "
4	"	"	126.8	9.8	98.9	TP-1	STA 23+50 "

Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source
TP-1	128.2		Babit Pit - CLAY

Remarks: Nuclear method used

Technician Time: 12:00 ~ 2:00

Don W...

Respectfully submitted,

EMPIRE SOILS INVESTIGATIONS, INC.

FILL MATERIAL ABOVE WATER SURFACE

FORM A-5 DIKE EXT.

SHEET _____ OF _____

INSPECTION DATE _____

1. MATERIAL	ACCEPT	REJECT	N/A
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	☒	☐	☐
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	☒	☐	☐
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	☒	☐	☐
- EXISTING GRADE IS SCARIFIED	☒	☐	☐
- MAXIMUM LOOSE LIFT OF 12"	☒	☐	☐
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	☒	☐	☐
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	☒	☐	☐
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	☒	☐	☐
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	☒	☐	☐

4. DUST CONTROL ACTION TAKEN: NONE REQUIRED5. FILL LOCATION DIKE STATION 22+00 TO 26+006. REMARKS SEE ATTACHED DENSITY TEST RESULTSINSPECTOR C. D. Swan DATE 11/20/90REVIEWED BY Dunpadian DATE 11/20/90

ARCO WELLSVILLE
Construction Management.
Daily Report
October 4, 1991

Arrived at 6:30am. Temp. 56 Lite RAIN

OHM completed Decon of equipment (D-4 Dozer, 225 Cat hoe, 580 Case hoe), equipment was moved off-site for load out.

Baker picked-up the TD-5 and Compactor.
I inspected each unit of equipment,
for cleanliness and accepted.

Call city water works to turn-off water.
shut off at 9:20am.

Secured all gates, winterized offices and
secure doors.

OHM left site @ 11:10am, I left site
at 1:10pm.

Site was secured and closed for winter.

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 10-4-91 DAY: Friday HRS. WRK. 7 REPORT NO. 91-18

WEATHER INFORMATION:

TEMPERATURE: High 59 Low 51 WIND: Mph. 3 to 5 Dir. 50
PRECIPITATION: .50" HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 0 P.M. 0
H&SO 0 HOP 0
C/SE 0 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 0
OTHERS 0 SUB. 0
" 0 SUPV. EMPS
USCOE/EPA 0 SUB. 0
" 0 SUPV. EMPS
VISITORS 0
0
0
0
0
MANUAL OHM GEN. LABOR 1 EQUIP. OPER. 2

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1-2</u>			
Dozer				
Back Hoe	<u>1-2</u>			
Back Hoe	<u>1-2</u>			
Compactor				
Compactor				
Dump Trk.				
Dump Trk.				
Others				
"				
"				

MEETINGS:

PLAN OF DAY

- Decon & load-out equipment
- Winterize office trailers
- Secure site.

SAFETY

see attached safety log sheet

SCHEDULED

None

UN-SCHEDULED

None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL:

~~Completed~~
~~No work~~

NORTH DIKE EXTENSION:

~~Completed~~
~~NO WORK~~

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE	
GEOWASTE MATERIAL	CY
CONTAMINATED WASTE	CY
CLEAN	CY
TOE TRENCH	CY
KEY TRENCH	CY
RIPRAP	TON

AGGREGATES	CY
TOP SOIL	
GEOTEXTILE FAB	SY
BEDDING MATERIAL	TON
GEOTEXTILE FAB	SY
CLAYMAX	SY
GEOMEMBRANE	SY
CLAY	CY
COMMON FILL	CY
RIPRAP	TON
MISC.	

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TYPE UNIT EST. QTY.

TOP SOIL	CY
AGGREGATES	CY
CLAYMAX	CY
CLAY	
COMMON FILL	
RIPRAP	

GEOTEXTILE FAB	SY
BEDDING MATERIAL	CY
GEOMEMBRANE	SY
EQUIP. FUEL & LUBE	GAL
MISC.	
MISC.	
MISC.	

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

None

MATERIALS LEAVING SITE: None

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS			
SANITARY WASTE	GALS			
DEBRI	TON			
USED OIL/LUBE	GAL			
MISC.				

EQUIPMENT ENTERING SITE: None

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES: *None*

REPORT NUMBERS

	Attached	report	required	by	Contract	document
_____	"	"	"	"	"	"
_____	"	"	"	"	"	"
_____	"	"	"	"	"	"
_____	"	"	"	"	"	"

COMMENTS _____

TECHNICAL CONCERNS/PROBLEMS: *None*

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS: *None*

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	_____	_____
"D" MOD	_____	_____
"D"	_____	_____
"C"	_____	_____
"B"	_____	_____
OTHER	_____	_____

DECONTAMINATION REQUIREMENTS: *None*

PERSONNEL:	EMPS. IN: _____	EMPS. OUT: _____
EQUIPMENT:	IN: _____	OUT: _____
VENDERS EQUIPMENT:	IN: _____	OUT: _____

ACCIDENTS/BREECHES OF PROCEDURES: *None*

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1 _____
2 _____

ACCIDENT/BREECHES REPORT: *None*

SECURITY: Guard was released Thursday - see attached
Site Entry permits

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 10-4-91

Contractor: Ebasco Constructors Inc.

Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill & No.Dike Ext.

Agency Name	Visitor(Name/Co.)	Weather
None	None	High 59,Low 51 Drizzeling rain
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating S=Standby
Gary L. Stiles C.M.1	OHM John Hoff 1	1-TD-4 Dozer S
Mike Hsieh Res.Eng.0	Equip.oper 3	1 225 Backhoe S
Gene Sosis C&S 0	Baker-equip op 0	1 580 Backhoe S
	Truck drivers 0	Equipment
	On-site SecGuard 0	parked outside
	Dough Myers-survey 0	main gate, for
	Empire Soils-Geotech0	load-out.

Health and Safety Issues:

* Project has been Demobilized for the winter.

Quality Control Issues:

* None

Problems and Concerns:

* None

Resolution of Previous Problems/Concerns:

* None

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 10-4-91

Sampling Activities Today	Quantity	Contractor	% Completed
None	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

Major Activities Today (Non-Sampling)

- * Contractor Demobilizing equipment.
- * Securing site and Winterizing offices.

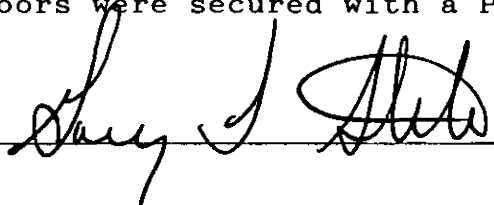
Major Activities Planned (Next 5 working days)

- * Close-out paper work.
- * Prepare Final Remedial Action Report.

Summary Report:

- * Contactor parked his Equipment outside of main gate for load-out.
- * Water was shut off at meter and office trailers were drained and anti-freeze put in all traps, thermostats were all set at 55 degrees.
- * All site Gates and Office trailers were locked, All trailer doors were secured with a Phillips screw and strap.

Site Manager



Date

10-4-91

ARCO Wellsville
SLA Backfill & No. Dike Ext.
H&S Log #1

(26)

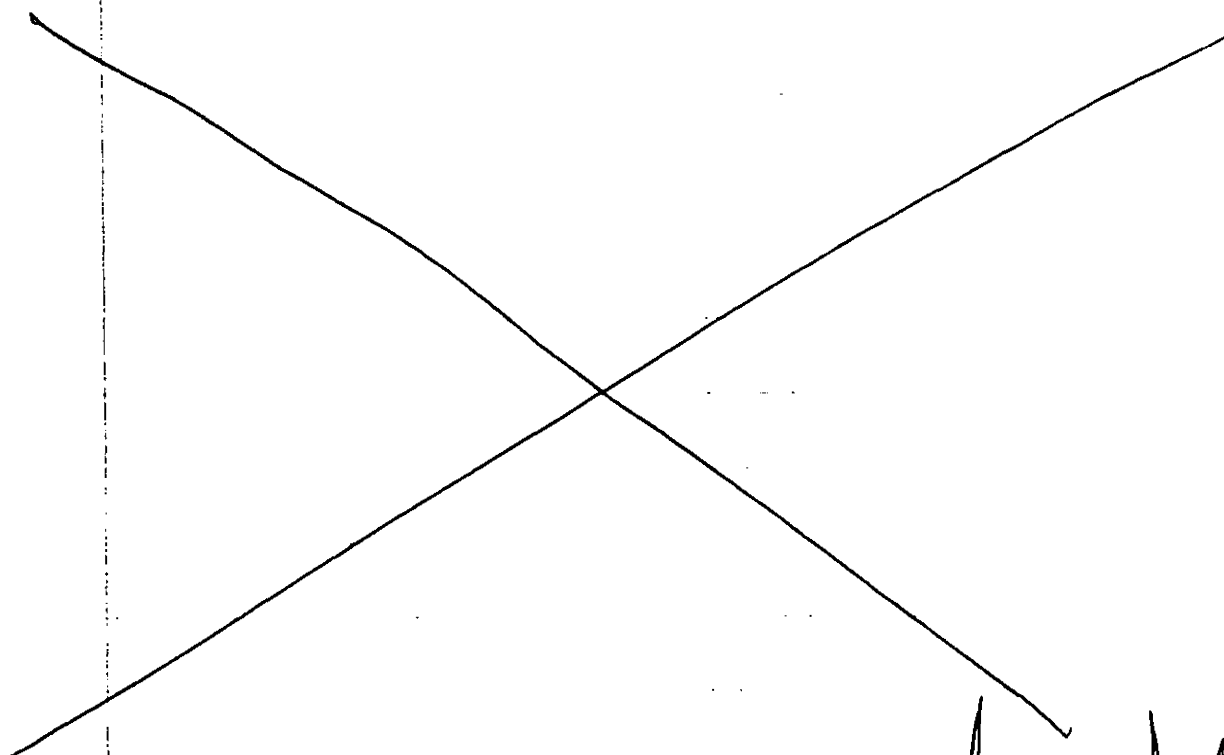
10-4-91

6:30 am Arrived @ site . Temp 56° Foggy

Closed up site, shut off water
and winterized trailer.

9:45 am Contractor moved all equipment off.

1:30 pm Left site Temp 61° Cloudy w/ showers



Darryl J. Stith

PROJECT ENTRY PERMIT

DATE: 10-4-91 TIME IN: 6:30 am TIME OUT: 1:30 pm

NAME: GARY L Stiles

COMPANY: EBASCO

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 10-4-91 TIME IN: 6:40 am TIME OUT: 10:30 am

NAME: John Huff

COMPANY: OHM

BADGE No: ~

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 10-4-91 TIME IN: 6:40 am TIME OUT: 10:30 am

NAME: Mike DeClarico

COMPANY: OHM

BADGE No: ~

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 10-4-91 TIME IN: 6:45 am TIME OUT: 9:30 am

NAME: John Accamondo

COMPANY: OHM

BADGE No: ~

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 10-4-91 TIME IN: 6:45 am TIME OUT: 9:30 am

NAME: Bill Hunt

COMPANY: OHM

BADGE No: ~

Must Be Turned Into Security Within First 2hrs Of Next Work Day

ARCO WELLSVILLE
Construction Management
Daily Report
October 3, 1991

Arrived At 6:35 am. Temp. 66°

Inspected NDE slope protection and punchlist items. Discussed outstanding punchlist items with John H. he feel confident he will have them all worked-off by time the walk thru. inspection occurs. I expressed my doubts.

Niel G and Vinu P Arrived At 8:10 am.

O/E started installation of Flow Restrictor At 8:45 am.

9:00 am started final inspection at EBASCO office conference room.

see Final Inspection meeting-(Oct. 3, 1991)
Hand-Out and Attendance sheet.

met with Niel, Dave & Vinu. and discussed:
Pg 1

- Final Report, Format & As-Builts. Vinu handed out a draft format, Dave said that it looked acceptable but would compare with Consent Decree requirements. Vinu had shown this to Mike Neggrillie - he had no initial comments.

- Reviewed As-built drawings - Vinu outlined his concerns, Dave stated what was going to be shown and accepted on each drawing. Vinu is to determine who signs drawings.

- Niel and I discussed project billings and the need to make payment on time - will look at all options to simplify approval process, even making payments from petty cash account.

Niel and Vinu left at 2:30 pm.

Started raining at 3:20 pm - I was putting up "Keep-out" and "No-Transpass" signs and driving additional T-post along barriers

fence line, at north end (sta. 0+75)

Sent Gene S and Mike H back to Lyndhurst
they left site at 1:30pm.

Gave Jerry Palmer a set of key for
gates and offices, per conversation
with John Palmer on Wed.

Vendors picked-up, Job-Johns and Dumpster.

Purchased Padlocks and keys for gates. today.

OHM Decontaminated TD-5 and compactor
for pick-up by Baker.

OHM stopped work at 5:00pm.

I left site at 7:10pm.

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 10-3-91 DAY: Thursday HRS. WRK. 12 REPORT NO. 91-17

WEATHER INFORMATION:

TEMPERATURE: High 69 Low 59 WIND: Mph. 3-5 Dir. S
PRECIPITATION: .25" HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 1
H&SO 0 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 1
OTHERS 1 SUB. 0
" 0 SUPV. 0 EMPS
USCOE/EPA 0 SUB. 0 EMPS
" 0 SUPV. 0 EMPS
VISITORS 0

See Attached
Sheet

MANUAL OHM GEN. LABOR 2 EQUIP. OPER. 3

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1-12</u>			
Dozer				
Back Hoe	<u>1-12</u>			
Back Hoe				
Compactor				
Compactor				
Dump Trk.				
Dump Trk.				
Others				
"				
"				

MEETINGS:

PLAN OF DAY

- Complete fine grading & gravel on site
haul roads
- Erect security fences & lock gates

SAFETY

see Attached Safety Log sheet

SCHEDULED

Pre-final inspection of SLA & dike
extensions

UN-SCHEDULED

None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL: No work scheduled

NORTH DIKE EXTENSION:

No work scheduled

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE		
GEOWASTE MATERIAL	CY	
CONTAMINATED WASTE	CY	
CLEAN	CY	
TOE TRENCH	CY	
KEY TRENCH	CY	
RIPRAP	TON	

TYPE UNIT EST. QTY.

AGGREGATES	CY	
TOP SOIL		
GEOTEXTILE FAB	SY	
BEDDING MATERIAL	TON	
GEOTEXTILE FAB	SY	
CLAYMAX	SY	
GEOMEMBRANE	SY	
CLAY	CY	
COMMON FILL	CY	
RIPRAP	TON	
MISC.		

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TOP SOIL	CY	
AGGREGATES	CY	
CLAYMAX	CY	
CLAY		
COMMON FILL		
RIPRAP		

TYPE UNIT EST. QTY.

GEOTEXTILE FAB	SY	
BEDDING MATERIAL	CY	
GEOMEMBRANE	SY	
EQUIP. FUEL & LUBE	GAL	
MISC.		
MISC.		
MISC.		

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

None

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	<u>Picked up Dumpster</u>	<u>No</u>	<u>G. Stiles</u>
SANITARY WASTE	GALS	<u>Picked up 2 Johns</u>	<u>No</u>	<u>G. Stiles</u>
DEBRI	TON			
USED OIL/LUBE	GAL			
MISC.				

EQUIPMENT ENTERING SITE: NONE

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

<u> </u>	Attached report required by Contract document					
<u> </u>	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"

COMMENTS

TECHNICAL CONCERNS/PROBLEMS:

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<u>12</u>	<u>144</u>
"D" MOD	<u> </u>	<u> </u>
"D"	<u> </u>	<u> </u>
"C"	<u> </u>	<u> </u>
"B"	<u> </u>	<u> </u>
OTHER	<u> </u>	<u> </u>

DECONTAMINATION REQUIREMENTS: NONE

PERSONNEL:	EMPS. IN: <u> </u>	EMPS. OUT: <u> </u>
EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>
VENDERS EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>

ACCIDENTS/BREECHES OF PROCEDURES: NONE

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1	<u> </u>
2	<u> </u>

ACCIDENT/BREECHES REPORT: NONE

SECURITY: See Gate log.

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 10-3-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill & No.Dike Ext.

Agency Name	Visitor(Name/Co.)	Weather
See Final Inspt. meeting attend- David Christenson ance sheet(attached).	ARCO	High 69,Low 59
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating S=Standby
Gary L. Stiles C.M.1	OHM John Hoff 1	1-TD-4 Dozer O
Mike Hsieh Res.Eng.1	Equip.oper 3	
Gene Sosis C&S 1	Baker-equip op 0 Truck drivers 0 On-site SecGuard 1 Dough Myers-survey 0 Empire Soils-Geotech0	1-Water Wagon S 1-End Loaders S
		1-580 Backhoe S 1-225 Backhoe S

Health and Safety Issues:

* All work in clean zones

*

Quality Control Issues:

* None

Problems and Concerns:

* None

*

Resolution of Previous Problems/Concerns:

* None

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 10-3-91

Sampling Activities Today	Quantity	Contractor	Completed %
None			

Major Activities Today (Non-Sampling)

- * Work-off Punch list items.
- * Contractor Demobilizing equipment.

Major Activities Planned (Next 5 working days)

- * Complete Demobilization.

Summary Report:

- * Final inspection of No. Dike Ext. and Pre Final Inspection of SLA Remediation was conducted today, No out standing items identified, All areas were accepted as complete.
- * Contractor Demobilized his equipment:
 - Storage trailer, End loader, 1ton Truck, Water truck. were loaded out.
 - D-4 Dozer, 225 Backhoe, 580 Backhoe were Deconed.

Site Manager

Gary J. Allen

Date

10-4-91

FINAL INSPECTION MEETING

ATTENDEES	COMPANY	TITLE
~~Gary J. H.~~	EBASCO	C.M.
DAVID CHRISTENSEN	ARCO	PM
THEODORE MYERS	NYSDEC FLOOD CONTROL	ENVIRONMENTAL ENGINEER II
MIKE NEGRELLI	USEPA	PROJ MGR.
JIM FERON	NYSDEC	REGION 9 ENV ENG II
NEIL GEEVERS	EBASCO	Project Coordinator
Tim Boyle	Corps - Buffalo	Civil Engineer
Jeannie Howell	Corps - Buffalo	Environmental Engineer
MARK KRAVECZ	OHM	(Inspector) PROJECT MANAGER
John W. Hoff	OHM	Site Super.
DAVE BINGBIZT	CORPS - BUFF	AREA ENGINEER
MIKE HRYWNAK	CORPS - NY DIST	CIVIL ENGINEER
MIKE HSIEH	EBASCO	Civil Engineer
VINU PATEL	EBASCO	Civil Engineer

(25)

ARCO wellsville
SLA Backfill + No Dike ext.
H75 Log #1

10-3-91

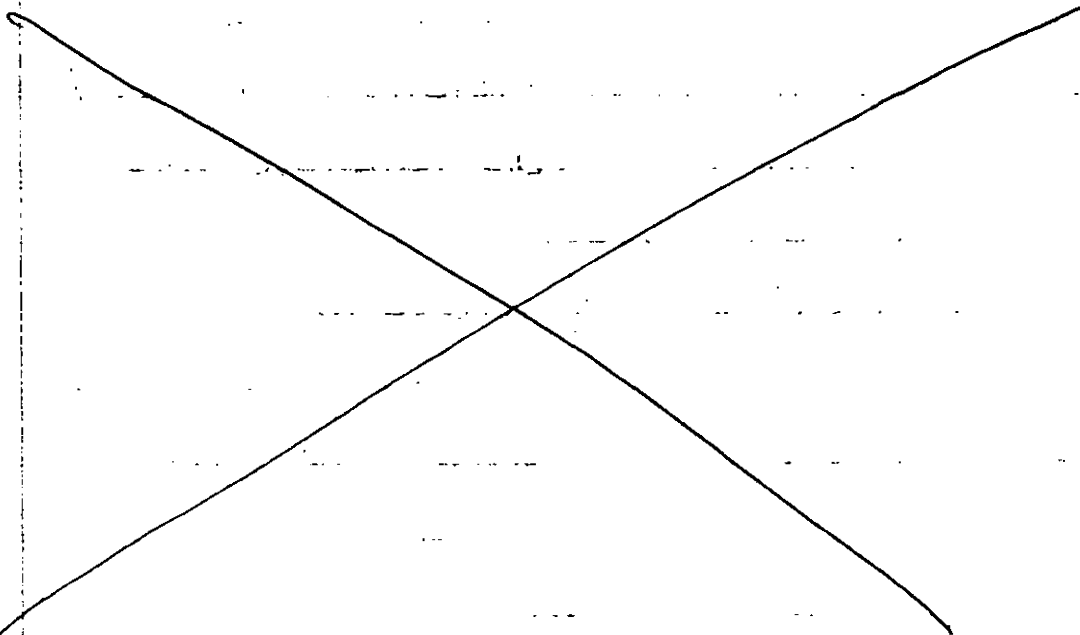
6:45am Arrived @ site - Temp 64° Clear

Contractor is Demobilizing his
equipment.

No Dust monitoring was needed.

Final inspection meeting was held today

7:20pm Left site Temp 52° RAINING.


Larry J. Mabe

PROJECT ENTRY PERMIT

DATE: 10-3-91 TIME IN: 6:45 am TIME OUT: 7:20 pm

NAME: GARY Shles

COMPANY: EBASCO

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

**SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM**

Date: 10/3/91

No./Name	Time In/Out	Time In/Out	Remarks
=====			
EBASCO			
Gary Stiles	6:45/11:28	2:26/3:01	4:10/
Mike Hsieh	8:04/10:54	11:10/11:49	
Eugene Sosis	7:56/10:54	11:10/11:33	
ARCO			
David Christensen	6:45/11:21		
OHM			
John Hoff	6:30/3:21		
John Accamunlo	6:30/11:31	1:42/1:43	3:21
Mike Deckerico	6:30/11:31	1:42/3:21	
John Chinnamunde	6:30/11:31	1:42/1:43	2:20/2:30 2:54/3:21
Bill Hunt	6:30/10:53	11:10/11:46	
Dean Roblin	6:30/11:46		
Mark Kravitz	7:06/12:04		
On-Site H&S			
Jon Palmer	6:55/6:56	8:28/8:30	12:57/1:06 1:52/1:56 2:34/2:43
Jerry Palmer	6:55/12:26	3:26/4:23	4:33/
Charles Ketchner	12:22/4:36		
Joe McGuinness	8:28/8:30		
Visitors			
Dan Whitehead	7:33/9:57	10:01/11:55	Bilotta Land.
Robert M. Lidaugh	7:40/7:44	9:06/9:57	Bilotta Land.
Terry Larson			Bilotta Land.
Bernie Hober	6:55/9:57	10:36/11:26	Taylor Armstrong
Diane Bilotta	7:33/7:44	9:06/9:57	10:36/11:55
Doug Bilotta/Lidaugh	7:40/9:57	10:36/11:32	Bilotta Land.
Neil Grevers	8:10/11:28	2:26/2:48	EBASCO
Vinu Patel	8:10/11:28	2:26/2:48	EBASCO
John Perkins	8:13/9:14		BSH
Mike Heywnick	8:41/11:58		USACE
Buck Williams	8:47/9:06		Adams Septic
Mike Benealli	9:08/11:37		EPA
Jim Felton	9:12/11:39		DEC
Ted Myers	9:12/11:38		DEC
Jim Doyle	9:17/11:38		USACE
Dave Binger	9:17/11:38		USACE
Deb Howell	9:17/11:38		USACE
Mrs. Christensen	1:00/1:21		
Arthur Lavette	1:11/1:15		Pattern Dispenser
Charlie Becker	11:30/2:31		
John Perkins	2:15/2:32		Bakers

Date: 10/3/91

Date: 10/3/91

[illegible]

ARCO WELLSVILLE
Construction Management
Daily Report
October 2, 1991

Arrived at 6:40 am, Temp. 52°

Seed & mulch contractor mobilized his personnel and equipment. I inspected and approved his equipment and personnel to work on site, for the task of seeding and mulching. Inspected seed and mulch for certification of compliance with specification. Approved materials after receiving verification of product purchase.

Inspected slope protection excavation Sta. 0+00 to -0+60. Approved for Geotextile and stone placement.

Mike H expressed a concern about the way they are seeding the back slope of the dikes, I went with him to look at it. They were putting the seed in to the mulch blower and allowing it to

blow the seed out through the discharge and onto the slope. This isn't acceptable in placement of on a dedicated surface such as the dike slope, the heavier seeds become projectile and the lighter seeds become AIR BORN, this effects the distribution AND intent of specification I stopped the contractor and told him to hold-up until I had talked with John H. Went to OHM office and told John he need to have the landscaper broadcast the seed on the slopes, he said that is what they had been told, He went out AND straightened it out.

Conducted a Pre-Final inspection of the NDE. John, Dave, Mike, Debbra & myself. 17 items on original lists, 11 completed 6 still outstanding.

Mike R-USOE called to confirm Final inspection on Thursday.

Checked on Flow Restriction, will start installing in the morning.

Pg 2

Went out with 2-Johns and showed them the location of security/Barrier fences that I want erected at end of this task.

Told On-Site (John Palmer) that Thur. Oct. 3, 1991 would be his last day.

Called vendors and suppliers, gave them address of P.O. Box 487, Cassville, Mo as the mailing location for invoices.

See 1991 Season's Close-out list.

Walt Simon's called.

- Asked if we were ready for inspections. I told him we were.

OKM stopped at 7:00pm, I left site at 7:10pm

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 10-2-91 DAY: Wednesday HRS. WRK. 12 REPORT NO. 91-16

WEATHER INFORMATION:

TEMPERATURE: High 78 Low 54 WIND: Mph. 7 to 10 Dir. S
PRECIPITATION: 0 HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 0
H&SO 0 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 1
OTHERS 0 SUB. 0
" 0 SUPV. EMPS
USCOE/EPA 1 SUB. 0
" 0 SUPV. EMPS
VISITORS 0
0
0
0
0
0
MANUAL OHM GEN. LABOR 4 EQUIP. OPER. 3

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dozer	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Back Hoe	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Back Hoe	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Compactor	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Compactor	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dump Trk.	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dump Trk.	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Others	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
"	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
"	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>

MEETINGS:

PLAN OF DAY

- Complete Slope protection NDE
- Seed & mulch SLA & NDE
- Gravel & grade HAUL ROADS

SAFETY

see attached safety log sheet

SCHEDULED

NONE

UN-SCHEDULED

NONE

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL: • Seed & mulch

NORTH DIKE EXTENSION:

- Completed Slope Protection
- FINE graded back Slope
- Seed & mulch

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE		
GEOWASTE MATERIAL	CY	
CONTAMINATED WASTE	CY	
CLEAN	CY	
TOE TRENCH	CY	
KEY TRENCH	CY	
RIPRAP	TON	

TYPE UNIT EST. QTY.

AGGREGATES	CY	
TOP SOIL		
GEOTEXTILE FAB	SY	
BEDDING MATERIAL	TON	
GEOTEXTILE FAB	SY	
CLAYMAX	SY	
GEOMEMBRANE	SY	
CLAY	CY	
COMMON FILL	CY	
RIPRAP	TON	
MISC.		

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TOP SOIL	CY	
AGGREGATES	CY	
CLAYMAX	CY	
CLAY		
COMMON FILL		
RIPRAP		

TYPE UNIT EST. QTY.

GEOTEXTILE FAB	SY	
BEDDING MATERIAL	CY	
GEOMEMBRANE	SY	
EQUIP. FUEL & LUBE	GAL	
MISC.		
MISC.		
MISC.		

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

NONE

MATERIALS LEAVING SITE: NONE

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS			
SANITARY WASTE	GALS			
DEBRI	TON			
USED OIL/LUBE	GAL			
MISC.				

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
<u>Seed & Mulch Equip</u>	YES <u>X</u> NO	<u>Not Req.</u>	<u>G. Stiles</u>
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

<u> </u>	Attached report required by Contract document
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "

COMMENTS • Verified seed compliance with spec

TECHNICAL CONCERNS/PROBLEMS:

None

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<u>16</u>	<u>192</u>
"D" MOD	<u> </u>	<u> </u>
"D"	<u> </u>	<u> </u>
"C"	<u> </u>	<u> </u>
"B"	<u> </u>	<u> </u>
OTHER	<u> </u>	<u> </u>

DECONTAMINATION REQUIREMENTS: None

PERSONNEL:	EMPS. IN: <u> </u>	EMPS. OUT: <u> </u>
EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>
VENDERS EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>

ACCIDENTS/BREECHES OF PROCEDURES: NONE

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1

2

ACCIDENT/BREECHES REPORT: None

SECURITY: See Attached gate log.

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 10-2-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
Debbra Howell BUFCOE	David Christenson ARCO	High 78, Low 54

Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating S=Standby
Gary L. Stiles C.M.1	OHM John Hoff 1	1-TD-4 Dozer O
Mike Hsieh Res.Eng.1	Equip.oper 3	1-Rayco 799
Gene Sosis C&S 1	Baker-equip op 2	Compacter S
	Truck drivers 0	0-10Whl Dumps S
	On-site SecGuard 1	1-End Loaders O
	Dough Myers-survey 0	1-580 Backhoe O
	Empire Soils-Geotech0	1-225 Backhoe O

Health and Safety Issues:

* All work in clean zones

*

Quality Control Issues:

* None

Problems and Concerns:

* None

*

Resolution of Previous Problems/Concerns:

* None

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 10-2-91

Sampling Activities Today	Quantity	Contractor	% Completed
None	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

Major Activities Today (Non-Sampling)

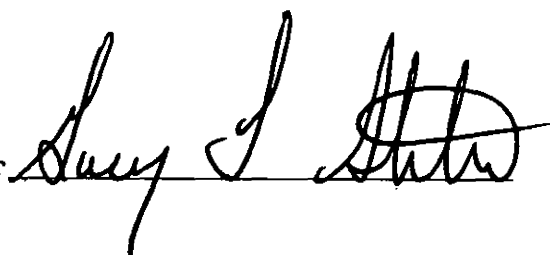
* Excavate Bedding & Rip Rap trench along river side	Complete
* Work-off Punch list items at SLA	Complete
* Place Geotextile fabric	Complete
* Place Bedding Stone	Complete
* Place Rip Rap	Complete
* Seed & Mulch SLA & NDE	Complete

Major Activities Planned (Next 5 working days)

- * Final Inspection
- * Demobilize Site

Summary Report:

- * Completed all scope of work items.
- * Completed 90% of Punch list items.

Site Manager  Date 10-3-91

To: File

October 2, 1991

From: Mike Hsieh

Subject: Sinclair Refinery Site

SLA Backfill & North End Dike Extension

Empire Soils Investigations Soil Tests

A telecon was held between Dennis Walton of Empire Soils and the writer regarding the Proctor test and gradation analysis on the dike fill material. Empire Soils will follow up on the following:

1. Proctor Test Report

- a) Clarify whether a "Modified Proctor" was indeed performed. If not, revised to read "Standard Proctor, ASTM D 698.
- b) Sample Location should read "Babbit Pit"
- c) Enter sampling date:

2. Gradation Analysis

Clarify whether the mechanical sieve analysis was done with washing to obtain more accurate reading of "percent fines". If not, redo the analysis with washing just to obtain "percent fines", no grain size distribution is needed.

3. Clarify whether a gradation analysis was done along with the Proctor test for the Babbit Pit sample. If not, perform an analysis as in Item 2.

ARCO Wellsville
SLA Backfall & No. Dike Ext.

(24)

H & S Log #1

10-2-91

6:45am Arrived at site - Temp 44° clear

9:40am 15 min Dust reading at NDE
0.01 mg/Lm³ placing Geo. Fab.

1:20pm 15 min Dust reading at SLA
0.02 mg/Lm³ - Told OHM to have
his contractor - water area.
Seeding & mulching.

2:15pm 15 min Dust reading at SLA
0.01 mg/Lm³ - Contractor had
water area
Seeding & mulching

5:10pm 15 min Dust read at NDE
0.00 mg/Lm³
Placing rip rap.

7:15pm Left site Temp 63°
Guy J. Shiro

SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM

Date: 10/2/91

No./Name	Time In/Out		Time In/Out		Remarks
EBASCO					
Gary Stiles	6:45/6:53	7:11/9:22	9:27/12:50	1:06/4:05	6:09/6:53
Mike Hsieh	7:05/12:00	11:03/6:21			
Eugene Sosis	7:58/11:57	12:49/3:10	4:12/6:21		
ARCO					
Dave Christensen	6:45/12:50	1:06/6:07			
OHM					
John Hoff	6:45/7:05	7:18/4:07	4:33/7:35		
John Accamando	6:45/7:05	7:18/11:55	12:47/4:07	4:23/7:35	
John Chaimonte	6:45/12:35	12:49/7:30			
Mike Declerico	6:45/7:30				
B. H. Hunt	6:45/10:03	11:01/7:30			
On-Site H+S					
Jon Palmer	6:53/6:55	12:07/1:56	6:14/6:18		
Jerry Palmer	6:53/12:12	1:45/7:45			
Chad Ketchner	2:45/2:52				
Visitors					
Jim Fisher	7:30/12:11	12:33/7:09			Bakers Blue Ford
Todd Baker	7:36/12:11	12:43/7:09			Bakers Red Dodge
Dan Demping	9:04/9:33	9:52/10:21			Bakers
Don Whitehead	9:13/2:09	2:09/3:22	4:43/7:45		Bilotta Land
Robert Middaugh	9:13/1:02	2:09/3:22	4:43/7:45		Bilotta
Larry Larson	9:13/7:45				Bilotta
Vincent Grant	9:13/9:46				Taylor +
Bernie Huber	9:13/7:40				Armstrong Cont.
Charlie Baker	9:43/9:53	10:12/10:21	3:03/3:32	3:39/4:05	Bakers
Boyd Green Jr.	10:15/10:29	11:36/11:48	12:45/1:04	2:06/2:19	3:31/3:39
John Perkins	10:29/11:03				Bakers
Diane Bilotta	10:51/1:02	2:09/2:16			Bilotta Land
Debra Howell	11:04/11:09	12:55/2:07			USACE
Kang Middaugh	11:25/11:30	3:00/3:22	4:43		to see Whitehead
Pattons Busy Bee	11:29/11:32				FedEx
ORLANDO SMITH	12:24/12:25				FedEx
Dean Roblin	2:10/7:30				OHM
Vic Black	2:18/2:32				Otis Eastern
Nick Moline	2:18/2:32				Otis Eastern
Scott Grantien	2:45/2:52				
Mrs. Christensen	6:00/6:07				
Joe McGuinness	6:14/6:18				
Bob Hardy	6:14/6:18				

ARCO WELLSVILLE
Construction Management
Daily Report
October 1, 1991

Arrived at 6:40 am. Temp. 54°

Discussed slope protection work with John H. he is reluctant to work on the area between Sta. 040 to -0460, he says that is work done by Garverie. I suggested he take a "good" look at it.

Dave asked about Flow Restrictor, I gave status from Monday, and told him that I was keeping mud eye on it.

OHM working on haul and access roads as agreed to, in-place of location shown on drawings.

OHM stopped work at 7:00pm, I left site at 8:10 pm.

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 10-1-91 DAY: Tuesday HRS. WRK. 12 REPORT NO. 91-15

WEATHER INFORMATION:

TEMPERATURE: High 71 Low 54 WIND: Mph. 3-5 Dir. NW
PRECIPITATION: 0 HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 0
H&SO 0 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 1
OTHERS 0 SUB. Doug Myers 1
" 0 SUPV. EMPS 1
USCOE/EPA 1 SUB. 0
" 0 SUPV. EMPS
VISITORS 0
0
0
0
0
0
MANUAL OHM GEN. LABOR 2 EQUIP. OPER. 4

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1-12</u>			
Dozer				
Back Hoe	<u>1-12</u>			
Back Hoe	<u>1-12</u>			
Compactor				
Compactor				
Dump Trk.				
Dump Trk.				
Others				
"				
"				

MEETINGS:

PLAN OF DAY • Continue slope protection NDE
• Complete Fine grading SLA.

SAFETY See attached safety log sheet

SCHEDULED None

UN-SCHEDULED None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL: • Pulled Drag over surface to smooth
humps and ridges.

NORTH DIKE EXTENSION: • Place slope protection
- Bedding
- Rip RAP
- Road Agg.

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE		
GEOWASTE MATERIAL	CY	
CONTAMINATED WASTE	CY	
CLEAN	CY	
TOE TRENCH	CY	
KEY TRENCH	CY	
RIPRAP	TON	

TYPE UNIT EST. QTY.

AGGREGATES	CY	
TOP SOIL		
GEOTEXTILE FAB	SY	
BEDDING MATERIAL	TON	
GEOTEXTILE FAB	SY	
CLAYMAX	SY	
GEOMEMBRANE	SY	
CLAY	CY	
COMMON FILL	CY	
RIPRAP	TON	
MISC.		

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TOP SOIL	CY	
AGGREGATES	CY	
CLAYMAX	CY	
CLAY		
COMMON FILL		
RIPRAP		

TYPE UNIT EST. QTY.

GEOTEXTILE FAB	SY	
BEDDING MATERIAL	CY	
GEOMEMBRANE	SY	
EQUIP. FUEL & LUBE	GAL	
MISC.		
MISC.		
MISC.		

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

None

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS			
SANITARY WASTE	GALS			
DEBRI	TON			
USED OIL/LUBE	GAL			
MISC.				

EQUIPMENT ENTERING SITE: None

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

<u> </u>	Attached report required by Contract document					
<u> </u>	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"

COMMENTS see GC inspection reports

TECHNICAL CONCERNS/PROBLEMS:

None

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<u>124</u>	<u>168</u>
"D" MOD	_____	_____
"D"	_____	_____
"C"	_____	_____
"B"	_____	_____
OTHER	_____	_____

DECONTAMINATION REQUIREMENTS: None

PERSONNEL: EMPS. IN: _____	EMPS. OUT: _____
EQUIPMENT: IN: _____	OUT: _____
VENDERS EQUIPMENT: IN: _____	OUT: _____

ACCIDENTS/BREECHES OF PROCEDURES: None

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1 _____

2 _____

ACCIDENT/BREECHES REPORT: None

SECURITY: see Attached Gate log.

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 10-1-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
Debbra Howell	David Christenson ARCO BUFCOE	High 71, Low 54
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating
Gary L. Stiles C.M.1	OHM John Hoff 1	S=Standby
Mike Hsieh Res.Eng.1	Equip.oper 3	1-TD-4 Dozer O
Gene Sosis C&S 1	Baker-equip op 2	1-Rayco 799
	Truck drivers 0	Compacter S
	On-site SecGuard 1	0-10Whl Dumps S
	Dough Myers-survey 1	1-End Loaders O
	Empire Soils-Geotech0	1-580 Backhoe O
		1-225 Backhoe O

Health and Safety Issues:

* All work in clean zones

*

Quality Control Issues:

* None

Problems and Concerns:

* None

*

Resolution of Previous Problems/Concerns:

* None

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 10-1-91

Sampling Activities Today	Quantity	Contractor	% Completed
None			

Major Activities Today (Non-Sampling)

* Excavate Bedding & Rip Rap trench along river side	20%
* Work-off Punch list items at SLA	75%
* Place Geotextile fabric	90%
* Place Bedding Stone	90%
* Place Rip Rap	90%

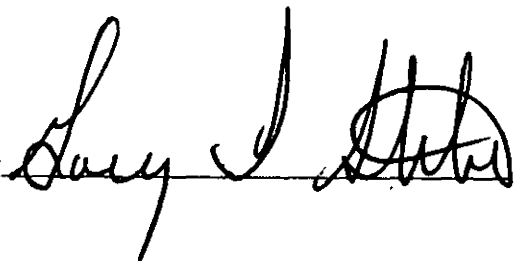
Major Activities Planned (Next 5 working days)

* Place Geotextile Fabric	OHM	10%
* Place Bedding stone.	OHM	10%
* Place Rip-Rap.	OHM	10%
* Seed & Mulch SLA & NDE areas.	OHM	100%
* Work-off Punch list items for North Dike Ext.	OHM	100%

Summary Report:

- * Placed Geotextile fabric, Bedding Stone and Rip Rap at NDE
- * Placed Clean Roadway Aggregate on Access Haul Roads.

Site Manager



Date

10-1-91

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

OCT. 01, 1991
TUESDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1930 HRS
SUNNY, WARM

MARK KRAVECZ, PM

OHM PERSONNEL:

1. J. HOFF	SUPERVISOR
2. J. ACCOMANDO	FOREMAN
3. M. DeCLERICO	EQPT OPER
4. J. CHAIRMONTE	EQPT OPER
5. WM HUNT	REC TEC

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
225 EXCAV	4926
580 CASE TLB	365
2" PUMP & HOSE	4508
D-4 DOZER	3720

SUBCONTRACTED EQUIPMENT:

PASSENGER VAN

SUBCONTRACTORS:

DC MYERS SURVEY
ARCADE, NY

AS BUILT SLA TOP SOIL,
DIKE CLAY & TOP SOIL

BAKERS OF JERHICO HILL
ALFRED, NY

(2) LABORERS

A. ATLAS STONE CORP
ALFRED, NY

SUPPLY & DELIVER STONE

MEETINGS:

0700 SAFETY MEETING: GED TEC & BEDDING STONE INSTALLATION,
SLIPS, TRIPS, FALLS, 225 OPS ON DIKE.

TASKS COMPLETED/UNDERWAY:

SLA:

1. 'DRAG' SLA, PICK UP LARGE STONES, PREP FOR SEED & MULCH
2. COMPLETE PUNCH LIST ITEMS.

MATERIAL RECEIVED:

1. NONE

SAMPLES TAKEN:

NONE

TAKEN BY:

N/A

LEVEL OF PROTECTION:

D

DECON:

NONE REQUIRED

NORTH DIKE EXTENSION:

1. CUT TOP OF DIKE TO GRADE.
2. INSTALL GED TEC.
3. INSTALL BEDDING STONE.
4. BEGIN INSTALLING RIP RAP.
5. BEGIN INSTALLING STONE ON ACCESS ROAD.

MATERIALS RECEIVED:

1. #2-3 ACCESS ROAD STONE 56.86 TON
2. GED TEC 0 ROLL

SAMPLES TAKEN: NONE
TAKEN BY: N/A
LEVEL OF PROTECTION: D
DECON: NONE REQUIRED

TECHNICAL CONCERNS & PROBLEMS

1. NONE

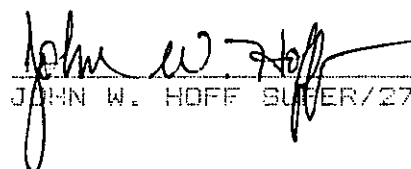
COMMENTS:

1. SLA PUNCH LIST COMPLETE.
2. (1) ROLL OF GED TEC DUE ON SITE APPROX 1600 HRS
TOMORROW/WED/OCT 02, DELIVERY BY OHM.

ACCIDENTS OR BREECHEES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:


JOHN W. HOFF SUPER/2759

10-1-91
(Tue)

Sunny
warm

- ° Arrive at site 7:00 am
- ° OHM placed the geotextile fabric on top of the dike fill on the river side, and continued on to place bedding and riprap materials.
- ° The survey crew made a final check out for the dike fill section elevation.
- ° The survey crew conducted as-built survey for topsoil placed in the SLA.
- ° OHM is working on the Field Inspection Punch List item given to them by C.M.
- ° OHM reworked on the transition section (sta 0+00 to sta 0+60) to place geotextile and bedding before placing riprap.
- ° Telecon with C. Swan on gradation analysis for the dike fill material to determine percent fines (silt and clay passing #200 sieve). He mentioned that Canonic washed the sample during the sieve analysis to obtain more accurate percentage of fines. Attempted to reach Empire Soils personnel several times without success.
- ° Left site at 7:00 pm

(23)

AKCO Wellsville
SLA Backfill & No Dike Ext
H & S Log #1

10-1-91

10-2

6:40am Arrived @ site ~ Temp. 39° Clear w/ Frost.

6:14

11:35 am 15 min Dust reading - At SLA .00 mg/m³
Picking up rock.

9:

12:45 pm 15 min Dust reading - At NDE .01 mg/m³
placing T/S Back slope.

1:

4:50 pm 15 min Dust reading - At NDE .01 mg/m³
Excavating for Rip rap

6:00 pm 15 min Dust reading - at SLA .00 mg/m³
Raking T/S.

2:

8:10 pm Left site Temp. 59° Clear.

5:

Sony I Hubs

7:

PROJECT ENTRY PERMIT

DATE: 10-1-91 TIME IN: 6:40 am TIME OUT: 8:10 pm

NAME: GARY L Stiles

COMPANY: EBASCO

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

Date: 10/1/91

Date: 10/1/91

No./Name	Time In/Out		Time In/Out		Remarks
EBASCO					
Gary Stiles	6:45/12:19	12:34/1:53			
Mike Hsieh	7:04/11:58	12:30/7:13			
Engene Sosis	7:52/11:57	12:42/7:07			
Joe Scurra					
ARCO					
Dave Christensen	6:45/12:11	1:13/6:10			
OHM					
John Hoff	6:30/7:16	7:28/1:43	2:14/7:35		
John Accamonte	6:30/7:35				
John Chiramoto	6:45/7:35				
Mike Deelenico	6:45/7:35				
Bill Hunt	6:45/12:50	11:27/7:35			
On-Site H+S					
Jon Palmer	6:55/6:57	11:41/11:44			
Jerry Palmer	6:55/11:44	5:57/7:35			
Chad Ketchner	11:33/6:03				
Visitors					
Doug Tingle	7:01/9:44	9:50/11:57	12:28/3:31		Myers Survey
Todd Baker	7:35/11:53	12:26/7:35			Bakers
Jim Fisher	8:15/11:53	12:27/7:35			Bakers
John Perkins	8:17/8:45				Bakers
Debra Howell	11:05/11:19	1:44/1:50			
Charlie Baker	11:19/11:54	5:16/5:22			
Mrs. Christensen	12:03/12:11	1:13/1:14	6:07/6:10		
Orlando Smith	1:04/1:07				Federal Express
Jim Lapey	1:23/1:27				Rupp Books
Ron Stall	2:42/2:45				DHL Express
Boyd Green Jr	1:11/1:28	4:19/4:37			

BEDDING

ORM A-7
SHEET 1 OF 1
INSPECTION DATE 10-1-91

1. MATERIAL

ACCEPT REJECT N/A

- BEDDING MATERIAL OBTAINED FROM
QUARRY ACCEPTED BY CONSTRUCTION
MANAGER.

✓

- FREE FROM SOFT, NON-DURABLE
PARTICLES, ORGANIC MATERIALS AND
THIN OR ELONGATED PARTICLES.

✓

- MATERIALS COMPLY WITH GRADATION
REQUIREMENTS.

✓

2. PLACEMENT

- FINAL IN-PLACE LOCATION AND THICKNESS
OF BEDDING IS AS SHOWN ON
CONTRACT DRAWINGS.

✓

3. DUST CONTROL

ACTION TAKEN: None4. BEDDING LOCATION North End Dike ExtensionDIKE STATION 0+00 TO -2+405. REMARKS Bedding material is from the same source
as was previously approvedINSPECTOR Mr. HsiehDATE 10-1-91REVIEWED BY Greg J. HiteDATE 10-1-91

GEOTEXTILE

ORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-1-91

	ACCEPT	REJECT	N/A
1. MATERIAL			
- MANUFACTURER'S MILL CERTIFICATE OR AFFIDAVIT HAS BEEN PROVIDED (ATTACH COPY)	<u>✓</u>	<u> </u>	<u> </u>
- FREE FROM DEFECTS, RIPS, HOLES, FLAWS, DETERIORATION OR DAMAGE	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- SURFACES TO RECEIVE GEOTEXTILE ARE FREE OF DEBRIS.	<u>✓</u>	<u> </u>	<u> </u>
- FINAL IN-PLACE LOCATION OF GEOTEXTILE COMPLIES WITH CONTRACT DRAWING.	<u>✓</u>	<u> </u>	<u> </u>
- INSTALLATION INCLUDING SEAMS, IS PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.	<u>✓</u>	<u> </u>	<u> </u>
3. VERIFICATION TESTING			
- 1 INSPECTION OF OVERLAPS AND SECURING METHODS AT 25' SPACING ALONG SEAM OR ONCE PER PIECE.	<u>✓</u>	<u> </u>	<u> </u>
- 1 SEAM STRENGTH TEST FOR EVERY 2500 FEET LENGTH OF SEAM.	<u> </u>	<u> </u>	<u>✓</u>
4. GEOTEXTILE LOCATION <u>North End Dike Extension</u>			
DIKE STATION <u>0+00</u> TO <u>-2+40</u>			
5. REMARKS <u>geotextile is from the same manufacturer</u>			
<u>as previously approved</u>			
<u> </u>			
<u> </u>			
<u> </u>			
INSPECTOR <u>Mr. H. J. H. H.</u>		DATE <u>10-1-91</u>	
REVIEWED BY <u> </u>		DATE <u>10-1-91</u>	

RIP RAP

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 10-1-91

	ACCEPT	REJECT	N/A
1. MATERIAL			
- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER	<u>✓</u>	<u> </u>	<u> </u>
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES	<u>✓</u>	<u> </u>	<u> </u>
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3,-0 INCHES	<u>✓</u>	<u> </u>	<u> </u>
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET	<u>✓</u>	<u> </u>	<u> </u>

3. DUST CONTROL

ACTION TAKEN: None

4. RIPRAP LOCATION North End Dike Extension

DIKE STATION 0+00 TO -2+40

5. REMARKS Riprap material is from the same source
as was previously approved

INSPECTOR my. High

DATE 10-1-91

REVIEWED BY Dave J. Stuber

DATE 10-1-91

ARCO WELLSVILLE
Construction Management
Daily Reports
September 30, 1991

Arrived At 6:45 am. Temp. 27°

Inspected NDE slope protection excavation,
Approved for Geotextile placement, and
bedding stone.

Charlie Baker of Baker Co. came in this morning
to discuss processing material for slurry
wall, Charlie said that we still had 2 to
3 weeks, that weather will allow excavation
and processing of clay. I told Mr Baker
that I had purposed to ARCO (Dave Christensen)
that they solicit bids from material vendors
in this area, and issue a purchase order
for this material to whoever submitted
the best price for the project.

to date, I haven't been given any indication
that they agree with me, and I can't not and
wouldn't recommend that he process
clay material with-out something in writing.

Tom G. Called, discussed:

- Status of project. SCA. Complete except for Seed & Mulch.
NDE. Clay 100%.
Top Soil 100%.
Placing Slope Protection.
- Passed on Baker's concern for clay.

Discussed Baker's concern about processed clay with Dave C., he will discuss with Walt when he gets back to L.A.

Went to O/E and checked flow restrictor fabrication. gate is ready to install, but Charlie needs his men to load out equipment, will get back on gate as soon as they can, will have completed by end of day Thursday.

Culligan delivered drinking water today.

Inspected slope protection work, needs to work area Sta 0+00 to -0+60, John H. will look at.

OHM stopped at 7:00pm, I left site at 7:25pm.

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 9-30-91 DAY: Monday HRS. WRK. 12 REPORT NO. 91-14

WEATHER INFORMATION:

TEMPERATURE: High 69 Low 27 WIND: Mph. 5-10 Dir. NW
PRECIPITATION: 0 HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO

C.M.	<u>1</u>	O.H.M. P.S.	<u>1</u>
RES.E	<u>1</u>	P.M.	<u>0</u>
H&SO	<u>0</u>	HOP	<u>0</u>
C/SE	<u>1</u>	"	<u>0</u>
F.E/I	<u>0</u>	"	<u>0</u>
HOP	<u>0</u>		
"	<u>0</u>		
"	<u>0</u>		
ARCO P.M.	<u>1</u>		
OTHERS	<u>0</u>	SUB. <u>Empire Soils</u>	
"	<u>0</u>	SUPV. <u>EMPS</u>	<u>1</u>
USCOE/EPA	<u>1</u>	SUB. <u>0</u>	
"	<u>0</u>	SUPV. <u>EMPS</u>	
VISITORS	<u>0</u>		
	<u>0</u>		
	<u>0</u>		
	<u>0</u>		
	<u>0</u>		

MANUAL OHM GEN. LABOR 2 EQUIP. OPER. 3

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1 - 12</u>			
Dozer				
Back Hoe	<u>1 - 12</u>			
Back Hoe	<u>1 - 12</u>			
Compactor				
Compactor				
Dump Trk.	<u>1 - 12</u>			
Dump Trk.				
Others				
"				
"				

MEETINGS:

PLAN OF DAY • Place slope protection @ NDE

SAFETY See safety log sheet

SCHEDULED None

UN-SCHEDULED None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL: • Picked up rocks and sticks.

• Raked Dihe slope

NORTH DIKE EXTENSION: • Placed Geotextile fabric
• Placed bedding
• Placed Rip Rag

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE		
GEOWASTE MATERIAL	CY	
CONTAMINATED WASTE	CY	
CLEAN	CY	
TOE TRENCH	CY	
KEY TRENCH	CY	
RIPRAP	TON	

TYPE UNIT EST. QTY.

AGGREGATES	CY	
TOP SOIL	CY	12
GEOTEXTILE FAB	SY	
BEDDING MATERIAL	TON	
GEOTEXTILE FAB	SY	
CLAYMAX	SY	
GEOMEMBRANE	SY	
CLAY	CY	
COMMON FILL	CY	
RIPRAP	TON	
MISC.		

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TOP SOIL	CY	12
AGGREGATES	CY	
CLAYMAX	CY	
CLAY		
COMMON FILL		
RIPRAP		

TYPE UNIT EST. QTY.

GEOTEXTILE FAB	SY	
BEDDING MATERIAL	CY	
GEOMEMBRANE	SY	
EQUIP. FUEL & LUBE	GAL	
MISC.		
MISC.		
MISC.		

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

See Engines Report

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS			
SANITARY WASTE	GALS			
DEBRI	TON			
USED OIL/LUBE	GAL			
MISC.				

EQUIPMENT ENTERING SITE: None

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

<u> </u>	Attached report required by Contract document
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "

COMMENTS NONE

TECHNICAL CONCERNS/PROBLEMS:

NONE

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<u>12</u>	<u>144</u>
"D" MOD	_____	_____
"D"	_____	_____
"C"	_____	_____
"B"	_____	_____
OTHER	_____	_____

DECONTAMINATION REQUIREMENTS: NONE

PERSONNEL:	EMPS. IN: _____	EMPS. OUT: _____
EQUIPMENT:	IN: _____	OUT: _____
VENDERS EQUIPMENT:	IN: _____	OUT: _____

ACCIDENTS/BREECHES OF PROCEDURES: NONE

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1 _____

2 _____

ACCIDENT/BREECHES REPORT: NONE

SECURITY: see attached gate log.

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-30-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
Debbra Howell	David Christenson ARCO BUFCOE	High 69, Low 27
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating
Gary L. Stiles C.M.1	OHM John Hoff 1	S=Standby
Mike Hsieh Res.Eng.1	Equip.oper 3	1-TD-4 Dozer O
Gene Sosis C&S 1	Baker-equip op 0	1-TD-5 Dozer S
	Truck drivers 0	1-Rayco 799
	On-site SecGuard 1	Compacter S
	Dough Myers-survey 0	1-10Whl Dumps S
	Empire Soils-Geotech1	1-Water Wagon S
		1-End Loaders O
Health and Safety Issues:		1-580 Backhoe O
* All work in clean zones		1-225 Backhoe O
		1- Scraper S

*

Quality Control Issues:

* None

Problems and Concerns:

* None

*

Resolution of Previous Problems/Concerns:

* None

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 9-30-91

Sampling Activities Today	Quantity	Contractor	Completed %
None			

Major Activities Today (Non-Sampling)

- * Excavate Bedding & Rip Rap trench along river side 80%
- * Work-off Punch list items.

Major Activities Planned (Next 5 working days)

* Place Bedding stone.	OHM	100%
* Place Rip-Rap.	OHM	100%
* Seed & Mulch SLA & NDE areas.	OHM	100%

Summary Report:

- * Released Dozer (IH TD-5), Water Truck(Chevy) & Scraper (IH 250)
- * Gave OHM Punchlist of SLA Backfill area.

Site Manager

Lucy J. Stiller

Date

9-30-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 30, 1991
MONDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1900 HRS
SUNNY, COOL

MARK KRAVECZ, PM

OHM PERSONNEL:

1.	J. HOFF	SUPERVISOR
2.	J. ACCOMANDO	FOREMAN
3.	M. DeCLERICO	EQPT OPER
4.	J. CHAIRMONTE	EQPT OPER
5.	WM HUNT	REC TEC

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
225 EXCAV	4926
590 CASE TLB	365
2" PUMP & HOSE	4508
D-4 DOZER	3720

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
S/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS:

NONE

MEETINGS:

0700 SAFETY MEETING: WSS SLOPE EXCAV, GEO TEC, BEDDING & RIP
RAP INSTALLATION.

TASKS COMPLETED/UNDERWAY:

SLA:

1. REGRADE, SHAPE UP, SLA ETC, AS PER EBASCO PUNCH LIST

MATERIAL RECEIVED:

1. NONE

SAMPLES TAKEN:

NONE

TAKEN BY:

N/A

LEVEL OF PROTECTION:

D

DECON:

NONE REQUIRED

NORTH DIKE EXTENSION:

1. EXCAVATE WSS, PREP FOR GEO TEC, BEDDING & RIP RAP.
2. COMPLETE ROUGH GRADE OF ACCESS ROAD, PREP FOR STONE.
3. SHAPE & GRADE ACCESS ROAD, AS PER EBASCO PUNCH LIST.
4. TAKE FINAL COMPACTION TEST ON TOP OF DIKE.

MATERIALS RECEIVED:

1. ROAD STONE 0 TON
2. RIP RAP 0 TON

<u>SAMPLES TAKEN:</u>	COMPACTION TESTING
<u>TAKEN BY:</u>	EMPIRE SOILS
<u>LEVEL OF PROTECTION:</u>	D
<u>DECON:</u>	NONE REQUIRED

TECHNICAL CONCERNS & PROBLEMS

1. GEO TEC DELIVERY, NOT AS SCHEDULED.

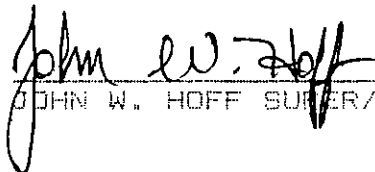
COMMENTS:

1. G.STYLES/EBASCO SUPPLIES OHM W/SLA PUNCH LIST.

ACCIDENTS OR BREECHES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:


JOHN W. HOFF SUPER/2759

9-30-91

M. Haid

(Mon)

Sunny

- Arrive at site 10:15 am. (Returned from home visit)
- The dike fill near the top on the river side is being shaped to accept bedding & riprap materials.
- The surveyor (Doug Meyers) is informed of the following required submittals:
 - Surveyor's state license
 - Equipment calibration certification.
- Empire Soils Testing is informed of the following required submittals:
 - Proctor test results
 - state certification
 - Equipment calibration
- Assisted preparation of Pre-Final Inspection Report.
- Left site at 6:50 pm
- Empire Testing conducted 3 in-place tests at the North-end dike fill placement.

ARCO Wellville
SLA Backfill & No. Dike Ext.
H & S Log #1

(22)

9-30-91

6:35 am Arrive At site Temp 27° - Clear

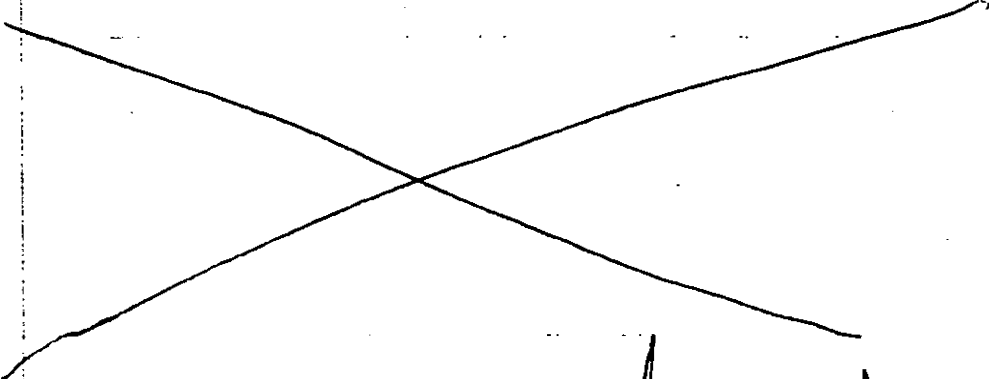
9:12 am 15 min Dust Reading - TWA .00 mg/m³
Working on NDE.

12:10 pm 15 min Dust Reading - TWA .01 mg/m³
Fine grading @ SLA

~~2:50 pm~~ 2:50 pm 15 min Dust Reading - .00 mg/m³
Working on NDE

6:10 pm 15 min Dust Reading - .01 mg/m³
~~Raking~~ Raking SLA.

7:50 pm Left site Temp 49°


Larry J. Hester

PROJECT ENTRY PERMIT

DATE: 9-30-91 TIME IN: 6:45 am TIME OUT: 7:50 pm

NAME: GARY L Stiles

COMPANY: FBASCO

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

Date: 9/30/91

Date: 9/30/91

No./Name	Time In/Out		Time In/Out		Remarks
EBASCO					
Gary Stiles	6:45/12:59	1:22/4:14	5:04		
Mike Hsieh	9:17/12:15	12:55/6:50			
Eugene Sosis	7:55/12:29	12:48/6:30			
Joe Sbarra					
DHM					
John Hoff	6:40/7:03				
John Accamando	6:40/7:03				
John Chairmonte	6:35/7:03				
Mike Declerico	6:35/7:03				
Bill Hunt	6:35/11:51	12:41/7:03			
ARCO					
Dave Christensen	6:45/11:59	12:37/6:01			
On-Site H+S					
Ton Palmer	7:00/7:09	10:39/10:47	11:23/12:00		
Jerry Palmer	7:00/11:25	11:59/2:43	4:49/7:05		
Chad Ketchner	2:43/5:33				
Visitors					
Todd Baker	8:10/9:01				
Mike Ludden	8:13/8:25				
Charlie Baker	8:25/9:01	2:56/4:23			
John Perkins	10:53/11:11	1:40/2:13			
DEBRA HOWELL	11/28/11:28	1:03/1:15			USACE
JAMES JOHNSON	11:56/1:07				ENTRIBE SOILS
Galligan Water	2:15/3:31				
Mrs Christensen	5:50/6:01				

FILL MATERIAL ABOVE WATER SURFACE

FORM : 5
SHEET 1 OF 1
INSPECTION DATE 9-30-91

1. MATERIAL	ACCEPT	REJECT	N/A
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	<u>✓</u>	<u> </u>	<u> </u>
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	<u> </u>	<u> </u>	<u>✓</u>
- EXISTING GRADE IS SCARIFIED	<u>✓</u>	<u> </u>	<u> </u>
- MAXIMUM LOOSE LIFT OF 12"	<u>✓</u>	<u> </u>	<u> </u>
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	<u>✓</u>	<u> </u>	<u> </u>
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	<u>✓</u>	<u> </u>	<u> </u>
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	<u>✓</u>	<u> </u>	<u> </u>
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	<u>✓</u>	<u> </u>	<u> </u>

4. DUST CONTROL
ACTION TAKEN: None5. FILL LOCATION North End Dike Extension
DIKE STATION Sta 0+00 TO Sta -2+406. REMARKS Moisture content slightly less than the lower rangeINSPECTOR [Signature] DATE 9-30-91REVIEWED BY [Signature] DATE 9-30-91

EMPIRE
SOILS INVESTIGATIONS INC.

- ☐ P.O. BOX 2199, BALLSTON SPA, NY 12020
☐ S-5167 SOUTH PARK AVENUE, HAMBURG, NY 14075 716-648-8110
☐ 105 CORONA AVENUE, GROTON, NY 13073 607-898-5881
☐ 35 NATIONAL ROAD, EDISON, NJ 08817 201-287-2224
☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14487 716-359-1980
☐ MORGANTOWN IND. PARK, P.O. BOX 189, MORGANTOWN, PA 18543 215-286-6657

Report No. _____

Date: 9-30-91

Job No. RT 91-161

[illegible]

Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source
91-352	126.1	9.6	BROWN SAND & GRAVEL TR SILT

Respectfully submitted,

Remarks: _____

EMPIRE SOILS INVESTIGATIONS, INC.

Technician Time: 1200 - 130

Technician: IFS

ARCO WELLSVILLE
Construction Management
Daily Report
September 29, 1991

Arrived At 8:30 am. Temp. 35°

No work by contractor is scheduled for today.

I came in to up-date paper work.

- Daily Reports.
- Inspection Reports.
- Cost, Scheduling And Accounting.

Developed Punchlist of NDE outstanding items.

Left site At 5:45 pm.

ARCO wells ville
SLA Backfill & North like ext.
H&S Log #1

(21)

9-29-91

8:45am Arrived @ site - Temp 35°

No construction activities planned
for today.

I am doing a Punch list inspection.
+
Up-dating paper work.

5:25 pm Left site - Temp 53°

Darryl Stites

PROJECT ENTRY PERMIT

DATE: 9-29-91 TIME IN: 8:30 am TIME OUT: 5:45 pm

NAME: GARY Stiles

COMPANY: EBASCO

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

FILL MATERIAL ABOVE WATER SURFACE

FORM A-5

SHEET 1 OF 1INSPECTION DATE 9-17-91

1. MATERIAL	ACCEPT	REJECT	N/A
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	<u>✓</u>	<u> </u>	<u> </u>
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	<u> </u>	<u> </u>	<u>✓</u>
- EXISTING GRADE IS SCARIFIED	<u>✓</u>	<u> </u>	<u> </u>
- MAXIMUM LOOSE LIFT OF 12"	<u>✓</u>	<u> </u>	<u> </u>
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	<u>✓</u>	<u> </u>	<u> </u>
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	<u>✓</u>	<u> </u>	<u> </u>
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	<u>✓</u>	<u> </u>	<u> </u>
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	<u>✓</u>	<u> </u>	<u> </u>
4. DUST CONTROL ACTION TAKEN: <u>None</u>			
5. FILL LOCATION DIKE STATION <u>SLA</u> TO <u>STA 22+50 to STA 27+00</u>			
6. REMARKS <u>Backfilling previously excavated SLA behind the dike</u>			
INSPECTOR <u>Mike Hsieh</u>		DATE <u>9-17-91</u>	
REVIEWED BY <u>Darryl J. Miller</u>		DATE <u>9-12-91</u>	

FILL MATERIAL ABOVE WATER SURFACE

FORM A-5

SHEET 1 OF 1INSPECTION DATE 9-18-91

1. MATERIAL

ACCEPT

REJECT

N/A

- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER

✓

- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER

✓

2. PLACEMENT

- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL

 ✓

- EXISTING GRADE IS SCARIFIED

 ✓

- MAXIMUM LOOSE LIFT OF 12"

✓

- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.

✓

- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.

✓

3. VERIFICATION TESTING

- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)

✓

- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.

✓

4. DUST CONTROL

ACTION TAKEN: None

5. FILL LOCATION

DIKE STATION SLA TO STA 22+50 to STA 27+006. REMARKS Backfilling previously excavated SLA behind the dikeINSPECTOR Mike HsiehDATE 9-18-91REVIEWED BY Hany J. ShihDATE 9-18-91

FILL MATERIAL ABOVE WATER SURFACE

FORM A-5

SHEET 1 OF 1
INSPECTION DATE 9-19-91

1. MATERIAL	ACCEPT	REJECT	N/A
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	<u>✓</u>	<u> </u>	<u> </u>
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	<u> </u>	<u> </u>	<u>✓</u>
- EXISTING GRADE IS SCARIFIED	<u> </u>	<u> </u>	<u>✓</u>
- MAXIMUM LOOSE LIFT OF 12"	<u>✓</u>	<u> </u>	<u> </u>
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	<u>✓</u>	<u> </u>	<u> </u>
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	<u> </u>	<u> </u>	<u>✓</u>
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	<u>✓</u>	<u> </u>	<u> </u>
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	<u>✓</u>	<u> </u>	<u> </u>

4. DUST CONTROL
ACTION TAKEN: None5. FILL LOCATION
DIKE STATION SLA TO STA 22+50 to STA 27+006. REMARKS Backfilling previously excavated SLA behind the dikeINSPECTOR M. Hsieh DATE 9-19-91REVIEWED BY Gary J. Hulse DATE 9-19-91

FILL MATERIAL ABOVE WATER SURFACE

FORM A-5

SHEET 1 OF 1
INSPECTION DATE 9-20-91

1. MATERIAL	ACCEPT	REJECT	N/A
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	<u>✓</u>	<u> </u>	<u> </u>
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	<u> </u>	<u> </u>	<u>✓</u>
- EXISTING GRADE IS SCARIFIED	<u> </u>	<u> </u>	<u>✓</u>
- MAXIMUM LOOSE LIFT OF 12"	<u>✓</u>	<u> </u>	<u> </u>
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	<u>✓</u>	<u> </u>	<u> </u>
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	<u> </u>	<u> </u>	<u>✓</u>
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	<u>✓</u>	<u> </u>	<u> </u>
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	<u>✓</u>	<u> </u>	<u> </u>

4. DUST CONTROL
ACTION TAKEN: None5. FILL LOCATION
DIKE STATION SLA TO STA 27+50 to STA 27+006. REMARKS Backfilling previously excavated SLA behind the dikeINSPECTOR Mike Hsieh DATE 9-20-91REVIEWED BY [Signature] DATE 9-20-91

FILL MATERIAL ABOVE WATER SURFACE

FORM A-5

SHEET 1 OF 1
INSPECTION DATE 9-21-91

1. MATERIAL	ACCEPT	REJECT	N/A
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	<u>✓</u>	<u> </u>	<u> </u>
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	<u> </u>	<u> </u>	<u>✓</u>
- EXISTING GRADE IS SCARIFIED	<u> </u>	<u> </u>	<u>✓</u>
- MAXIMUM LOOSE LIFT OF 12"	<u>✓</u>	<u> </u>	<u> </u>
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	<u>✓</u>	<u> </u>	<u> </u>
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	<u>✓</u>	<u> </u>	<u> </u>
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	<u>✓</u>	<u> </u>	<u> </u>
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	<u>✓</u>	<u> </u>	<u> </u>
4. DUST CONTROL ACTION TAKEN: <u>None</u>			
5. FILL LOCATION DIKE STATION <u>SLA</u> TO <u>STA 22+50 to 27+00</u>			
6. REMARKS <u>Backfilling previously excavated SLA behind the dike</u>			
INSPECTOR <u>Mike Hsieh</u>	DATE <u>9-21-91</u>		
REVIEWED BY <u>Shuy J. Hsieh</u>	DATE <u>9-21-91</u>		

TOPSOIL STRIPPING

FORM A-2

SHEET 1 OF 1
INSPECTION DATE 9-23-91

1. VERIFICATION INSPECTION	ACCEPT	REJECT	N/A
- TOPSOIL AND ORGANIC MATERIAL WITHIN DIKE FOUNDATION AREA REMOVED TO A MINIMUM OF 6 INCH DEPTH.	<u>✓</u>	<u> </u>	<u> </u>
- DIKE FOUNDATION AREA IS FREE OF ORGANIC MATERIAL.	<u> </u>	<u> </u>	<u>✓</u>
- STRIPPING IS MONITORED AS PER SAMPLING & ANALYSIS PLAN	<u>✓</u>	<u> </u>	<u> </u>

2. DUST CONTROL

ACTION TAKEN None

3. LOCATION (APPROXIMATE)

DIKE STATION North end of dike extension TO STA -2+40 to STA 0+004. REMARKS Stripping is from the top of the dike and the
dike slope on the land side.

INSPECTOR

Larry J. StilesDATE 9-23-91

REVIEWED BY

Larry J. StilesDATE 9-23-91

EROSION AND SEDIMENT CONTROL

FORM A-11
SHEET 1 OF 1
INSPECTION DATE 9-24-91

ACCEPT REJECT N/A

1. MATERIAL

- MANUFACTURER'S LABEL OR
CERTIFICATE COMPLIES WITH CERTIFIED
EROSION AND SEDIMENT CONTROL PLAN.

✓

2. PLACEMENT

- SILT FENCES, HAY BALES AND OTHER
EROSION CONTROL MEASURES ARE INSTALLED
AS SHOWN ON ~~CERTIFIED EROSION AND~~
~~SEDIMENT CONTROL PLAN.~~ ATTACHED SKETCH.

✓

3. LOCATION OF EROSION AND SEDIMENT
CONTROL MEASURES.

DIKE STATION North End Dike Extension
Sta. 0+00 TO Sta -2+40

OTHER

4. REMARKS Plastic sheets are used to cover the
unfinished fill at the end of the day expecting
rain tomorrow.

INSPECTOR sg. Hinch

DATE 9-24-91

REVIEWED BY Darryl J. Hatcher

DATE 9-24-91

FILL MATERIAL ABOVE WATER SURFACE

FORM A-5

SHEET 1 OF 1INSPECTION DATE 9-30-91

	ACCEPT	REJECT	N/A
1. MATERIAL			
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	<u>✓</u>	<u> </u>	<u> </u>
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	<u> </u>	<u> </u>	<u>✓</u>
- EXISTING GRADE IS SCARIFIED	<u>✓</u>	<u> </u>	<u> </u>
- MAXIMUM LOOSE LIFT OF 12"	<u>✓</u>	<u> </u>	<u> </u>
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	<u>✓</u>	<u> </u>	<u> </u>
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	<u>✓</u>	<u> </u>	<u> </u>
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	<u>✓</u>	<u> </u>	<u> </u>
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	<u>✓</u>	<u> </u>	<u> </u>

4. DUST CONTROL
ACTION TAKEN: None

5. FILL LOCATION North End Dike Extension
DIKE STATION Sta 0+00 TO Sta -2+40

6. REMARKS Moisture content slightly less than the lower range

INSPECTOR [Signature] DATE 9-30-91

REVIEWED BY [Signature] DATE 9-30-91

FORM A-6
SHEET 1 OF 1
INSPECTION DATE 10-1-91

SHEET / OF /

INSPECTION DATE 10-1-91

ACCEPT REJECT N/A

- ✓

- ✓

- ✓

- ✓

- ✓

- ✓

- _____ ✓

Extension

prime manufacturer

DATE 10-1-91

DATE 10-1-91

BEDDING

FORM A-7
SHEET 1 OF 1
INSPECTION DATE 10-1-91

	ACCEPT	REJECT	N/A
1. MATERIAL			
- BEDDING MATERIAL OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER.	<u>✓</u>	<u> </u>	<u> </u>
- FREE FROM SOFT, NON-DURABLE PARTICLES, ORGANIC MATERIALS AND THIN OR ELONGATED PARTICLES.	<u>✓</u>	<u> </u>	<u> </u>
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS.	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- FINAL IN-PLACE LOCATION AND THICKNESS OF BEDDING IS AS SHOWN ON CONTRACT DRAWINGS.	<u>✓</u>	<u> </u>	<u> </u>
3. DUST CONTROL			
ACTION TAKEN: <u>None</u>			
4. BEDDING LOCATION <u>North End Dike Extension</u>			
DIKE STATION <u>0+00</u> TO <u>-2+40</u>			
5. REMARKS <u>Bedding material is from the same source</u>			
<u>as was previously approved</u>			

INSPECTOR My. Hoyle DATE 10-1-91REVIEWED BY Doug J. Hite DATE 10-1-91

RIP RAP

FORM A-8
SHEET 1 OF 1
INSPECTION DATE 10-1-91

	ACCEPT	REJECT	N/A
1. MATERIAL			
- RIPRAP OBTAINED FROM QUARRY ACCEPTED BY CONSTRUCTION MANAGER	<u>✓</u>	<u> </u>	<u> </u>
- FREE FROM DIRT, SAND, CLAY AND ROCK FINES	<u>✓</u>	<u> </u>	<u> </u>
- MATERIALS COMPLY WITH GRADATION REQUIREMENTS	<u>✓</u>	<u> </u>	<u> </u>
2. PLACEMENT			
- FINAL IN-PLACE LOCATION AND THICKNESS OF RIPRAP AS SHOWN ON DRAWINGS WITH A TOLERANCE OF +3,-0 INCHES	<u>✓</u>	<u> </u>	<u> </u>
- MATERIAL DEPOSITED FROM HEIGHT OF LESS THAN 2 FEET	<u>✓</u>	<u> </u>	<u> </u>
3. DUST CONTROL			
ACTION TAKEN: <u>None</u>			
4. RIPRAP LOCATION			
<u>North End Dike Extension</u>			
DIKE STATION	<u>0+00</u>	TO	<u>-2+40</u>
5. REMARKS	<u>Riprap material is from the same source as was previously approved</u>		

INSPECTOR my. High DATE 10-1-91
REVIEWED BY Darryl J. Stiles DATE 10-1-91

FIELD IN-PLACE DENSITY TEST REPORT



- ☐ 5 KNABNER ROAD, P.O. BOX 2199, BALLSTON SPA, NY 12020 518/899-7491
- ☐ S-5167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716/649-8110
- ☐ 105 CORONA AVENUE, GROTON, NY 13073 607/898-5881
- ☐ 140 TELEGRAPH ROAD, P.O. BOX 297, MIDDLEPORT, NY 14105 716/735-3502
- ☐ 4287 WITMER ROAD, B.P.O. BOX 188, NIAGARA FALLS, NY 14305-0188 716/297-5981
- ☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14467 716/359-1960
- ☐ 35 NATIONAL ROAD, EDISON, NJ 08817 908/287-2224
- ☐ MORGANTOWN BUS. PARK, P.O. BOX 189, MORGANTOWN, PA 19543 215/286-6657

Project: Simlain Refinery Site Report No: _____
 Client: EPSCO Date: 9-17-91
 Contractor: Chm Job No.: 12191-

Test No.	Date of Test	Depth or Elevation	In-place Density (pcf)	In-place Moisture (%)	% Compaction	Proctor Code	Location and Remarks
1	9-17	-6	125.6	7.3	99.6		South East End of S.A. 10' north of South Ben
2		-6	125.6	7.8	99.7		↓ 10' South of North Ben
3		-6	120.8	8.6	95.8		North West End 30' north of South Ben
4		-5	130.7	7.8	100+		10'
5		-5	121.1	8.4	97.0		middle of area center line
6		-5	130.1	8.0	100+		North West End 25' south of North Ben
7		-4	129.9	7.8	95.6		South East End of S.A. 20' south of
8		-4	121.5	7.5	97.0		↓
Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source				
	126.1	9.6					

Remarks: _____
 Technician Time: 10:00 @ 2:30
 Technician: Robert Blum

Respectfully submitted,
 EMPIRE SOILS INVESTIGATIONS, INC.

FIELD IN-PLACE DENSITY TEST REPORT

CALL

FINAL @ 7:15 PM

1-800-698-8110



- ☐ 5 KNABNER ROAD, P.O. BOX 2199, BALLSTON SPA, NY 12020 518/899-7491
- ☐ S-5167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716/649-8110
- ☐ 105 CORONA AVENUE, GROTON, NY 13073 607/899-5881
- ☐ 140 TELEGRAPH ROAD, P.O. BOX 297, MIDDLEPORT, NY 14105 716/735-3502
- ☐ 4287 WITMER ROAD, B.P.O. BOX 188, NIAGARA FALLS, NY 14305-0188 716/297-5981
- ☐ 535 SUMMIT POINT DRIVE, MENRIETTA, NY 14467 716/359-1960
- ☐ 35 NATIONAL ROAD, EDISON, NJ 08817 908/287-2224
- ☐ MORGANTOWN BUS. PARK, P.O. BOX 189, MORGANTOWN, PA 19543 215/288-6657

Project: OLD SINCLAIR REFINERY

Report No: _____

Client: EBASCO

Date: 9/18/91

Contractor: OHM

Job No.: RT-91-

Test No.	Date of Test	Depth or Elevation	In-place Density (pcf)	In-place Moisture (%)	% Compaction	Proctor Code	Location and Remarks
1	9/18/91	-5" F.G.	131.8	7.0	100+		STA. 25+75, 18' LEFT OF DIKE E
2	"	-13" F.G.	132.6	6.8	100+		STA. 25+35, 60' LEFT OF DIKE E
3	"	-20" F.G.	133.0	6.3	100+		STA. 25+00, 85' " " "
4	"	-24" F.G.	122.1	7.6	96.8		STA. 24+50, 18' " " "
5	"	-30" F.G.	120.6	7.5	95.6		STA. 24+30, 78' " " "
6	"	-36" F.G.	121.4	6.7	96.3		STA. 24+00, 180' " " "
7	"	-26" F.G.	118.5	7.0	94.0		STA. 23+50, 120' " " "
8	"	-28" F.G.	124.1	7.8	98.3		STA. 23+50, RETEST OF TEST # 7

Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source
1	126.1	9.6	

NOTE: CLIENT WAS INFORMED OF LOW AIR-DRYING CONTENT OF TESTS

RF = FINISH SUBGRADE

Respectfully submitted, 12,3,5+6

Remarks: A CLIENT'S REPRESENTATIVE, GARY STILES,

EMPIRE SOILS INVESTIGATIONS, INC.

AND INFORMED OF ALL TEST RESULTS

Technician Time: 8:15 / 10:15

Technician: J. KING

SUBSURFACE EXPLORATION ■ CONSTRUCTION QUALITY CONTROL ■ ENGINEERING SPECIALTY SERVICES

FIELD IN-PLACE DENSITY TEST REPORT



☐ P.O. BOX 2199, BALLSTON SPA, NY 12020
☐ S-5167 SOUTH PARK AVENUE, HAMBURG, NY 14075 716-649-8110
☐ 105 CORONA AVENUE, GROTON, NY 13073 607-898-5881
☐ 35 NATIONAL ROAD, EDISON, NJ 08817 201-287-2224
☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14467 716-359-1960
☐ MORGANTOWN IND. PARK, P.O. BOX 189, MORGANTOWN, PA 19543 215-288-6657

Project: SINCLAIR REFINERY Report No. _____

Client: EBASCO Date: 9/19/91

Contractor: CHM Job No. RT-91-

Test No.	Date of Test	Depth or Elevation	In-place Density (pcf)	In-place Moisture (%)	% Compaction	Proctor Code	Location and Remarks
1	9/19/91	-22" F.G.	128.0	11.4	100+		STA. 24+20, 100' WEST OF DIKE E
2	"	F.G.	131.1	6.8	100+		STA. 25+50, 27' WEST OF DIKE E
3	"	F.G.	127.4	7.4	100+		STA. 25+75, 70' WEST OF DIKE E

Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source
	126.1	9.6	BROWN SAND AND GRAVEL, LITTLE SILT

NOTE: CLIENT WAS INFORMED OF LOW MOISTURE ON TESTS #2 & 3

F.G. = FINISH SUBGRADE

Remarks: A CLIENT'S REPRESENTATIVE, G.D. STILES, WAS INFORMED OF TEST RESULTS

Technician Time: _____

Technician: J. KING

Respectfully submitted,
EMPIRE SOILS INVESTIGATIONS, INC.

EMPIRE

SALES INVESTIGATIONS INC.

- ☐ 5 KNABNER ROAD, P.O. BOX 2199, BALLSTON SPA, NY 12020 518/899-7491
☐ S-5167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716/649-8110
☐ 105 CORONA AVENUE, GROTON, NY 13073 607/898-5881
☐ 140 TELEGRAPH ROAD, P.O. BOX 297, MIDDLEPORT, NY 14105 716/735-3502
☐ 4287 WITMER ROAD, B.P.O. BOX 188, NIAGARA FALLS, NY 14305-0188 716/297-5981
☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14467 716/359-1960
☐ 35 NATIONAL ROAD, EDISON, NJ 08817 908/287-2224
☐ MORGANTOWN BUS. PARK, P.O. BOX 189, MORGANTOWN, PA 19543 215/286-6657

Client: EBSCO Date: 9/20/91

Contractor: OHM Job No.: RT-91-

[illegible]

10 = FINISH SUBGRADE

Respectfully submitted,

marks: A CLIENT'S REPRESENTATIVE, GARY

EMPIRE SOILS INVESTIGATIONS, INC.

TIPS WAS INFORMED OF ALL TEST RESULTS

Technician Time: 7:30/9:30 12:00/2:00

chician: JAMES KING

EMPIRE
SOILS INVESTIGATIONS INC.

- Project: SINCLAIR REFINERY Report No: _____
Client: ABASCO Date: 9-24-91
Contractor: OHM Job No.: RT-91-161

Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source
1-352	126.1	9.6	

Remarks: _____

Technician Time: 1000/1145 (NL) 200 | 345 180 mi RT

Technician: JAS

FIELD IN-PLACE DENSITY TEST REPORT

EMPIRE SOILS INVESTIGATIONS INC.

- ☐ P.O. BOX 2199, BALLSTON SPA, NY 12020
- ☐ S-5167 SOUTH PARK AVENUE, HAMBURG, NY 14075 716-649-8110
- ☐ 105 CORONA AVENUE, GROTON, NY 13073 607-898-5881
- ☐ 35 NATIONAL ROAD, EDISON, NJ 08817 201-287-2224
- ☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14467 716-359-1960
- ☐ MORGANTOWN IND. PARK, P.O. BOX 189, MORGANTOWN, PA 19543 215-288-6657

Project: SINCLAIR REFINERY Report No. _____
 Client: EBASCO Date: 9-30-91
 Contractor: CHM Job No. RT 91-161

Test No.	Date of Test	Depth or Elevation	In-place Density (pcf)	In-place Moisture (%)	% Compaction	Proctor Code	Location and Remarks
1	9/30	F6	124.4	7.3	98.6	91-352	STA - 0+50 E of DIKE
2	↓	↓	122.6	6.7	97.2	↓	STA - 1+00 E of DIKE
3	↓	↓	123.7	7.0	98.0	↓	STA - 1+50 E of DIKE

Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source
91-352	126.1	9.6	BROWN SAND & GRAVEL TR SILT

Remarks: _____
 Technician Time: 1200 - 130
 Technician: IFS

Respectfully submitted,
 EMPIRE SOILS INVESTIGATIONS, INC.

ARCO WELLSVILLE
Construction Management
Daily Report
September 28, 1991

Arrived at 6:20 am, Temp 39°

Inspected NDE, back slope is dry enough to place Top Soil, approved for placement. Told John H. that he needs to spread the ridge of dirt that is collected along the toe of slope.

Baker only 1 truck running, and the driver of it was having to load it as well as drive to and from the site.

Inspected the SLA, There is loose stone in excess of 2" and some dirt clods with vegetation roots, directed OHM to pick these up and then re-fine grade.

OHM stopped work at 7:00 pm. I left site at 7:35 pm.

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: _____

DATE: 9-28-91 DAY: Saturday HRS. WRK. 12 REPORT NO. 91-13

WEATHER INFORMATION:

TEMPERATURE: High 54 Low 39 WIND: Mph. 3/5 Dir. SO
PRECIPITATION: 0 HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 0 P.M. 0
H&SO 0 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 0
OTHERS 0 SUB. Doug Myers
" 0 SUPV. EMPS 2
USCOE/EPA 1 SUB. _____
" 0 SUPV. EMPS
VISITORS 0

MANUAL OHM GEN. LABOR 1 EQUIP. OPER. 3

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1-12</u>			
Dozer				
Back Hoe	<u>1-12</u>			
Back Hoe				
Compactor				
Compactor				
Dump Trk.	<u>1-12</u>			
Dump Trk.				
Others				
"				
"				

MEETINGS:

PLAN OF DAY ° Place Clay at NDE
° Fine Grade SCA

SAFETY see Attached safety log.

SCHEDULED None

UN-SCHEDULED None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
SLA BACKFILL: ° Fine Grade

NORTH DIKE EXTENSION: ° Complete clay.

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE		
GEOWASTE MATERIAL	CY	~~_____~~
CONTAMINATED WASTE	CY	~~_____~~
CLEAN	CY	~~_____~~
TOE TRENCH	CY	~~_____~~
KEY TRENCH	CY	~~_____~~
RIPRAP	TON	~~_____~~

TYPE UNIT EST. QTY.

AGGREGATES	CY	~~_____~~
TOP SOIL		~~_____~~
GEOTEXTILE FAB	SY	~~_____~~
BEDDING MATERIAL	TON	~~_____~~
GEOTEXTILE FAB	SY	~~_____~~
CLAYMAX	SY	~~_____~~
GEOMEMBRANE	SY	~~_____~~
CLAY	CY	~~_____~~ 100
COMMON FILL	CY	~~_____~~
RIPRAP	TON	~~_____~~
MISC.		~~_____~~

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TOP SOIL	CY	~~_____~~
AGGREGATES	CY	~~_____~~
CLAYMAX	CY	~~_____~~
CLAY	CY	~~_____~~ 100
COMMON FILL		~~_____~~
RIPRAP		~~_____~~

TYPE UNIT EST. QTY.

GEOTEXTILE FAB	SY	~~_____~~
BEDDING MATERIAL	CY	~~_____~~
GEOMEMBRANE	SY	~~_____~~
EQUIP. FUEL & LUBE	GAL	~~_____~~
MISC.		~~_____~~
MISC.		~~_____~~
MISC.		~~_____~~

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

NONE

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	~~_____~~	~~_____~~	~~_____~~
SANITARY WASTE	GALS	~~_____~~	~~_____~~	~~_____~~
DEBRI	TON	~~_____~~	~~_____~~	~~_____~~
USED OIL/LUBE	GAL	~~_____~~	~~_____~~	~~_____~~
MISC.		~~_____~~	~~_____~~	~~_____~~

EQUIPMENT ENTERING SITE: NONE

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES _____ NO _____		
	YES _____ NO _____		
	YES _____ NO _____		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

<u> </u>	Attached report required by Contract document
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "

COMMENTS

TECHNICAL CONCERNS/PROBLEMS: *None*

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<i>10</i>	<i>120</i>
"D" MOD	<u> </u>	<u> </u>
"D"	<u> </u>	<u> </u>
"C"	<u> </u>	<u> </u>
"B"	<u> </u>	<u> </u>
OTHER	<u> </u>	<u> </u>

DECONTAMINATION REQUIREMENTS: *None*

PERSONNEL:	EMPS. IN: <u> </u>	EMPS. OUT: <u> </u>
EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>
VENDERS EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>

ACCIDENTS/BREECHES OF PROCEDURES: *None*

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1
2

ACCIDENT/BREECHES REPORT: *None*

SECURITY: See Attached Gate log.

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-28-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
Debbra Howell	David Christenson ARCO BUFCOE	High 54, Low 39
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating S=Standby
Gary L. Stiles C.M.1	OHM John Hoff 1 Equip.oper 3	1-TD-4 Dozer O
Gene Sosis C&S 1	Baker-equip op 1 Truck drivers 1 On-site SecGuard 1	1-TD-5 Dozer S 1-Rayco 799 Compacter S
	Dough Myers-survey 1	1-10Whl Dumps O
	Empire Soils-Geotech0	1-Water Wagon S 1-End Loaders O
		1-580 Backhoe O
Health and Safety Issues:		1-225 Backhoe O
* All work in clean zones		1- Scraper S
*		

Quality Control Issues:

* None

Problems and Concerns:

* None

*

Resolution of Previous Problems/Concerns:

* None

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO Site: Wellsville Date: 9-28-91

Sampling Activities Today	Quantity	Contractor	Completed %
None			

Major Activities Today (Non-Sampling)

- * Place top soil on NDE slope 7 loads@10CY= 70CY OHM 100%
- * Excavate Bedding & Rip Rap trench along river side 30%
- * Complete top soil at SLA area. 3 loads@10CY=30CY OHM 100%
- *

Major Activities Planned (Next 5 working days)

- * Place Bedding stone. OHM 100%
- * Place Rip-Rap. OHM 100%
- * Seed & Mulch SLA & NDE areas. OHM 100%

Summary Report:

- * Completed top soil placement at NDE and SLA area.

Site Manager

[Signature]

Date

9-29-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 28, 1991
SATURDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1700 HRS
SUNNY, COOL

MARK KRAVECZ, PM

OHM PERSONNEL:

1. J. HOFF	SUPERVISOR
2. J. ACCOMANDO	FOREMAN
3. M. DeCLERICO	EQPT OPER
4. J. CHAIRMONTE	EQPT OPER
5. WM HUNT	REC TEC

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
225 EXCAV	4926
550 CASE TLB	365
2" PUMP & HOSE	4508
D-4 DOZER	3720

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
S/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS:

BAKERS OF JERICH0 HILL
ALFRED, NY

SUPPLY & IMPORT TOP SOIL

MEETINGS:

0700 SAFETY MEETING: DIKE TOP SOIL OPS, GRADE/LINE/SLOPE
SPEC.

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. NONE

MATERIAL RECEIVED:

1. NONE

SAMPLES TAKEN:

NONE

TAKEN BY:

N/A

LEVEL OF PROTECTION:

D

DECON:

NONE REQUIRED

NORTH DIKE EXTENSION:

1. RECIEVE & PLACE TOP SOIL ON LSS.
2. RE-INSTALL SILT FENCE AT TOE OF LSS.

MATERIALS RECEIVED:

1.	CLAY FILL	0 CY	
2.	TOP SOIL	108 CY	EST @ 12 CY EACH LOAD
2.	ROAD STONE	0 TON	
3.	RIP RAP	0 TON	

SAMPLES TAKEN: NONE
TAKEN BY: N/A
LEVEL OF PROTECTION: D
DECON: NONE REQUIRED

TECHNICAL CONCERNS & PROBLEMS

1. NONE

COMMENTS:

1. NONE

ACCIDENTS OR BREECHES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:


JOHN W. HOFF SUPER/2759

(20)

ARCO Wellsville
SLA Backfill & North Dike ext.
H & S Log #1

9-28-91

9

E

6:35 am Arrived @ Site - Temp 38°

7:00 am Plan-of-day.

- Place T/S on NDE slope
- Excavate for bedding stone & Rip Rip - NDE.

Weather report 30% RAIN. Clear to Partly cloudy with 10 to 15 mph Winds.

Safety tips.

- Wear eye protection.
- Be Alert around equipment.

9:08 am 15 min Dust reading - TWA .01 mg/m³
Placing T/S on NDE slope.

1:17 pm 15 min Dust reading - TWA .01 mg/m³
Fine grading Top Soil NDE slope

5:12 pm ~~15 min~~ 16 min Dust reading - TWA .00 mg/m³
Excavating trench for Rip Rip - NDE

7:18 pm Left site - Temp 54° Gary J. Hiler

**SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM**

Date: 9/28/91

No./Name	Time In/Out		Time In/Out	Remarks	
=====					
EBASCO					
Gary Stiles	6:50/11:14	11:46/1:22	1:35/7:09		
Kuene Sosis	6:55/12:12	12:46/7:05			
OHM					
John Hoff	6:30/10:32	11:20/7:13			
John Clairmont	6:30/7:13				
John Acamando	6:30/7:13				
Mike Declerico	6:30/7:13				
Bill Hunt	6:30/3:28	4:39/7:13			
Algie Livingston	6:30/11:42	12:00/7:13			
On-Site H+S					
Jon Palmer	7:54/7:58	10:29/10:32			
Jenny Palmer	7:00/9:08	1:04/			
Visitors					
Charlie Baker					
Todd Baker	8:51/9:19	9:34/9:45			Bakers
Tim Fisher	8:51/9:19	9:34/9:45			Bakers
Debra Howell	12:10/1:22	1:35/1:52	3:45/3:49		U.S. ARMY
Randy Frank	6:50/10:10				Along Myers
Dan Ray	6:50/10:10				" "

ARCO WELLSVILLE
CONSTRUCTION MANAGEMENT
DAILY REPORT
SEPTEMBER 27, 1991

Arrived at 6:40am. Temp. 42.

Inspected NDE , Back slope still wet, but top is dry,
Approved to place clay on Top.

Went to O.E. to check on flow restrictor, They have it cut out but Charlie needed them to work on a lube truck for him, so they had to pull oof and work on truck. will get back on gate this evening.

Went by Farm supply and picked up No Traspas and Keep Out signs.

Talked with John H about Seed & Mulch, I had'nt seen any thing that indicated he was ready to starand had been told last night that he had'nt been able to get Genessee Landscape to do it. He confirmed my info. I told him that their was a company over in Pa. I would get him phone number if he was interested are Charlie B. had volunteered takle with Genessee if he wants. But don't wait much longer. He will work with Charlie.

Talked with Gene about cost reporty, I outlined the changes that I want made and give it to him to change.

Dave asked what OHM was going to do in place of the Haul road that he was paying for, I took him out and walked the area and showed him where they were going to place aggregate, they will be placing more than was in their bid, He agreed that was ok.

John H. asked for the phone no. for the Pa. landscaper and spec. requirements for the approved materials. He going to have to use them.

Inspected NDE work, They have started excavating for Geotextile and Bedding stone. Showed then how for down the slope they need to go.

Set down with Gene and showed him how to put the cost and accruals into the right format.

OHM stopped work at 7:00pm. I left site at 7:45pm.

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 9-27-91 DAY: Friday HRS. WRK. 12 REPORT NO. 91-12

WEATHER INFORMATION:

TEMPERATURE: High 46 Low 42 WIND: Mph. 34 Dir. SO
PRECIPITATION: 0 HUMIDITY: HIGH

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 0
H&SO 0 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 1
OTHERS 0 SUB. 0
" 0 SUPV. EMPS
USCOE/EPA 1 SUB. 0
" 0 SUPV. EMPS
VISITORS 0
0
0
0
MANUAL OHM GEN. LABOR 2 EQUIP. OPER. 3

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1-12</u>			
Dozer	<u>1-12</u>			
Back Hoe				
Back Hoe				
Compactor	<u>1-12</u>			
Compactor				
Dump Trk.				
Dump Trk.				
Others				
"				
"				

MEETINGS:

PLAN OF DAY • Fine Graded SLA

• Place Clay @ NDE

SAFETY See Attached Safety Log

SCHEDULED None

UN-SCHEDULED None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL: Fine Graded Top Soil

NORTH DIKE EXTENSION: Placed Clay

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE		
GEOWASTE MATERIAL	CY	~~_____~~
CONTAMINATED WASTE	CY	~~_____~~
CLEAN	CY	~~_____~~
TOE TRENCH	CY	~~_____~~
KEY TRENCH	CY	~~_____~~
RIPRAP	TON	~~_____~~

TYPE UNIT EST. QTY.

AGGREGATES	CY	~~_____~~
TOP SOIL		~~_____~~
GEOTEXTILE FAB	SY	~~_____~~
BEDDING MATERIAL	TON	~~_____~~
GEOTEXTILE FAB	SY	~~_____~~
CLAYMAX	SY	~~_____~~
GEOMEMBRANE	SY	~~_____~~
CLAY	CY	~~144~~
COMMON FILL	CY	~~_____~~
RIPRAP	TON	~~_____~~
MISC.		~~_____~~

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TOP SOIL	CY	~~_____~~
AGGREGATES	CY	~~_____~~
CLAYMAX	CY	~~_____~~
CLAY	CY	~~144~~
COMMON FILL		~~_____~~
RIPRAP		~~_____~~

TYPE UNIT EST. QTY.

GEOTEXTILE FAB	SY	~~_____~~
BEDDING MATERIAL	CY	~~_____~~
GEOMEMBRANE	SY	~~_____~~
EQUIP. FUEL & LUBE	GAL	~~_____~~
MISC.		~~_____~~
MISC.		~~_____~~
MISC.		~~_____~~

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

NONE

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	~~_____~~	~~_____~~	~~_____~~
SANITARY WASTE	GALS	~~_____~~	~~_____~~	~~_____~~
DEBRI	TON	~~_____~~	~~_____~~	~~_____~~
USED OIL/LUBE	GAL	~~_____~~	~~_____~~	~~_____~~
MISC.		~~_____~~	~~_____~~	~~_____~~

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
~~_____~~	YES ~~_____~~ NO ~~_____~~	~~_____~~	~~_____~~
~~_____~~	YES ~~_____~~ NO ~~_____~~	~~_____~~	~~_____~~
~~_____~~	YES ~~_____~~ NO ~~_____~~	~~_____~~	~~_____~~

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

<u> </u>	Attached report required by Contract document						
<u> </u>	"	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"	"

COMMENTS

TECHNICAL CONCERNS/PROBLEMS:

None

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<u>12</u>	<u>144</u>
"D" MOD	<u> </u>	<u> </u>
"D"	<u> </u>	<u> </u>
"C"	<u> </u>	<u> </u>
"B"	<u> </u>	<u> </u>
OTHER	<u> </u>	<u> </u>

DECONTAMINATION REQUIREMENTS: None

PERSONNEL:	EMPS. IN: <u> </u>	EMPS. OUT: <u> </u>
EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>
VENDERS EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>

ACCIDENTS/BREECHES OF PROCEDURES: None

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1

2

ACCIDENT/BREECHES REPORT: None

SECURITY: See Gate log.

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-27-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
David Christenson ARCO	High 46, Low 42	
Debbra Howell BUFCOE		
Mike Rywnike NYCOE		

Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating S=Standby
Gary L. Stiles C.M.1	OHM John Hoff 1	1-TD-4 Dozer O
Mike Hsieh Res.Engr.1	Equip.oper 3	1-TD-5 Dozer S
Gene Sosis C&S 1	Baker-equip op 1	1-Rayco 799
	Truck drivers 1	Compacter S
	On-site SecGuard 1	1-10Whl Dumps O
	Dough Myers-survey 0	1-Water Wagon S
	Empire Soils-Geotech0	1-End Loaders O

Health and Safety Issues:

* All work in clean zones

*

1-580 Backhoe O

1-225 Backhoe O

1- Scraper S

Quality Control Issues:

* None

Problems and Concerns:

* None

*

Resolution of Previous Problems/Concerns:

* None

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 9-27-91

Sampling Activities Today	Quantity	Contractor	% Completed
None			

Major Activities Today (Non-Sampling)

- * Placed clay at NDE 13 loads@10CY = 130 CY OHM 12%
- * Fine grade Topsoil at SLA
- *
- *

Major Activities Planned (Next 5 working days)

- * Place Topsoil at SLA area 36 CY OHM 4%
- * Place Topsoil at NDE 50 CY OHM 100%
- * Place Bedding stone OHM 100%
- * Place Rip-Rap OHM 100%

Summary Report:

- * Completed clay on North Dike Extension.

Site Manager

Darryl J. Hatcher

Date

9-28-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 27, 1991
FRIDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1900 HRS
P' CLOUDY, COOL

MARK KRAVECZ, PM

OHM PERSONNEL:

1. J. HOFF	SUPERVISOR
2. J. ACCOMANDO	FOREMAN
3. M. DECLERICO	EQPT OPER
4. J. CHAIRMONT	EQPT OPER
5. WM HUNT	REC TEC

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
225 EXCAV	4926
580 CASE TLB	365
2" PUMP & HOSE	4508
D-4 DOZER	3720

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
S/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS:

BAKERS OF JERICHO HILL
ALFRED, NY

SUPPLY & IMPORT TOP SOIL

MEETINGS:

0700 SAFETY MEETING: TOP OF DIKE & LSS SUB GRADE & TOP SOIL
OPS, GRADE/LINE/SLOPE SPEC, COMPACTION REQUIREMENTS & OPS.

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. 'DRAG' SLA FOR FINE GRADE, STONE REMOVAL, PREP FOR SEED &
MULCH.

MATERIAL RECEIVED:

1. NONE

SAMPLES TAKEN:

NONE

TAKEN BY:

N/A

LEVEL OF PROTECTION:

D

DECON:

NONE REQUIRED

NORTH DIKE EXTENSION:

1. RECIEVE, PLACE & COMPACT CLAY FILL
2. CUT LSS TO GRADE, PREP FOR TOP SOIL

MATERIALS RECEIVED:

1.	CLAY FILL	144 CY	EST @ 10CY/TRUCK/COMPACTED
2.	ROAD STONE	0 TON	
3.	RIP RAP	0 TON	

<u>SAMPLES TAKEN:</u>	NONE
<u>TAKEN BY:</u>	N/A
<u>LEVEL OF PROTECTION:</u>	D
<u>DECON:</u>	NONE REQUIRED

TECHNICAL CONCERNS & PROBLEMS

1. NONE

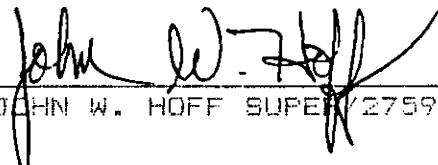
COMMENTS:

1. SEED & MULCH SUB CONTRACTOR IN QUESTION. EXERCISING OPTIONS AVAILABLE.

ACCIDENTS OR BREECHES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:



JOHN W. HOFF SUPER/2759

ARCOWellsville
SLA Backfill & N. Dike Ext
H & S Log #1

(19)

9-27-91

6:25am Arrived at site - Temp 42°

7:00 Plan-of-Day.

- Complete clay fill @ NDE.
- Fine grade soft spots at SLA.

Weather report: 30% RAIN - Partly cloudy.

Safety tips:

- Use flagman to back trucks down dike.
- Don't work below the dozer while it is compacting & fine grading slopes.

10:12am 15 min Dust reading - TWA .00 mg/m³
Placing clay on NDE.

3:35pm 16 min Dust reading - TWA .01 mg/m³.
Fine grading SLA T/S.

6:10pm 15 min Dust reading - TWA .00 mg/m³ @ NDE.
16 min Dust Reading - TWA .01 mg/m³ @ SLA.

7:30pm Left site. Temp. 54°

Gary J. Hiles

PROJECT ENTRY PERMIT

DATE: 9-27-91 TIME IN: 6:25 am TIME OUT: 7:50pm

NAME: Gary C. Stiles

COMPANY: EBASCO

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-27-91 TIME IN: 6:50 am TIME OUT: 7:30pm

NAME: John Hoff

COMPANY: OHM

BADGE No:

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-27-91 TIME IN: 6:50am TIME OUT: 7:30pm

NAME: John Accamondo

COMPANY: OHM

BADGE No:

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-27-91 TIME IN: 6:50 am TIME OUT: 7:20 pm

NAME: John Clairmonte

COMPANY: OHM

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-27-91 TIME IN: 7:00 am TIME OUT: 7:20 pm

NAME: Mike DeClerico

COMPANY: OHM

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-27-91 TIME IN: 7:00 am TIME OUT: 7:20 pm

NAME: Bill Hunt

COMPANY: OHM

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

Low temp: 32°
High temp: 61°

SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM

Date: 9/27/91

No./Name	Time In/Out		Time In/Out		Remarks
=====					
EBASCO					
Gary Stiles	6:25/12:47	1:31/5:23	6:16/		
Mike Hsieh					
Eugene Sosis	6:52/12:46	1:29/3:23	4:11/4:18		
Joe Sharrar					
ARCO					
Dave Christensen	6:25/7:40	7:43/12:00			
DHM					
John Hoff	6:50/				
John Accamando	6:50/9:18	9:46/			
John Chaimante	7:00/				
Mike DeClerico	7:00/				
Bill Hunt	7:00/9:00	12:09/12:19	1:23		
On-Site H+S					
Jon Palmer	11:49/	1:25/			
Jerry Palmer	6:55/11:52	1:23/			
Visitors					
Debra Huncell	10:58/11:00	12:13/12:22			Army C.O.C.
MRS. CHRISTENSEN	11:52/12:00				
DIANNE BILLOTTA	12:39/12:57				LANDWORKS
DON WHITEHEAD	12:38/12:57				LANDWORKS
MATTHEW SHORR	1:09/1:40				SHORTS OIL

B/H

0

ARCO WELLSVILLE
CONSTRUCTION MANAGEMENT
DAILY REPORT
SEPTEMBER 26, 1991

Arrived at 6:45am. Temp. 50.

Inspected the SLA area, it is in good shape to place Top Soil, Approved for OHM to continue placement.

Inspected NDE still to wet to work. could probably work if trucks didn't have to back down the top dike, Buy it is to un-safe to attempt.

John H, Gave me new keys to new locks at Pipe gate #A1478 and Drum yard. #3301.

Checked on Flow Restrictor at O.E. have ordered material.

Tom G Called discussed the following:

- a. Job Status: SLA. Clay 100%
 - Common 100%
 - Top Soil 34%
- NDE. Stripping 100%
 - Clay 85%
 - Road up grade 100%
 - Temp. Rd. 50%

Inspection scheduled for next Thur. Oct 3

- b. Told him about Mike H return trip, and release of Joe S.
- c. Discussions with Dave C.

Dave inquired about Temp. haul road, I told him what I had done, He was up set that it was not changed earlier, said that a long discussion was had in Lyndhurst with Vinu and Niel they had argued that it was needed, so it was put on the bid schedule as a line item and the contractor priced it, so some one is going to have justify changing it. I told him that I was that some one and if he wanted it in writing then I would give it to him, He said he wasn't concerned with my decision but with Vinu and Niels to put it on the bid schedule. I told him that i would talk with them about it.

Called Niel told him about Dave discussion, He will get with Vinu about it.

OHM stopped work at 7:00pm. I left the site at 7:40pm.

Page 1 of 5

MEETINGS:

PLAN OF DAY

Place Top-Soil at SLA

SAFETY

See Attached safety log

SCHEDULED

None

UN-SCHEDULED

None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL:

Placed Top Soil

NORTH DIKE EXTENSION:

To wet to work

MATERIALS HANDLED:

TYPE UNIT EST. QTY.		TYPE UNIT EST. QTY.	
CLEARING BRUSH ACRE		AGGREGATES	CY <u>12</u>
GEOWASTE MATERIAL	CY <u>/</u>	TOP SOIL	CY <u>720</u>
CONTAMINATED WASTE	CY <u>/</u>	GEOTEXTILE FAB	SY <u>/</u>
CLEAN	CY <u>/</u>	BEDDING MATERIAL	TON <u>/</u>
TOE TRENCH	CY <u>/</u>	GEOTEXTILE FAB	SY <u>/</u>
KEY TRENCH	CY <u>/</u>	CLAYMAX	SY <u>/</u>
RIPRAP	TON <u>/</u>	GEOMEMBRANE	SY <u>/</u>
		CLAY	CY <u>/</u>
		COMMON FILL	CY <u>/</u>
		RIPRAP	TON <u>/</u>
		MISC.	<u>/</u>

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.		TYPE UNIT EST. QTY.	
TOP SOIL	CY <u>720</u>	GEOTEXTILE FAB	SY <u>/</u>
AGGREGATES	CY <u>/</u>	BEDDING MATERIAL	CY <u>/</u>
CLAYMAX	CY <u>/</u>	GEOMEMBRANE	SY <u>/</u>
CLAY	<u>/</u>	EQUIP. FUEL & LUBE	GAL <u>/</u>
COMMON FILL	<u>/</u>	MISC.	<u>/</u>
RIPRAP	<u>/</u>	MISC.	<u>/</u>
		MISC.	<u>/</u>

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

None

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	<u>600</u>	<u>NO</u>	<u>G. Shles</u>
SANITARY WASTE	GALS	<u>50</u>	<u>NO</u>	<u>G. Shles</u>
DEBRI	TON	<u>/</u>	<u>/</u>	<u>/</u>
USED OIL/LUBE	GAL	<u>/</u>	<u>/</u>	<u>/</u>
MISC.		<u>/</u>	<u>/</u>	<u>/</u>

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
<u>None</u>	YES <u>/</u> NO <u>/</u>	<u>/</u>	<u>/</u>
	YES <u>/</u> NO <u>/</u>	<u>/</u>	<u>/</u>
	YES <u>/</u> NO <u>/</u>	<u>/</u>	<u>/</u>

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

<u> </u>	Attached report required by Contract document
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "

COMMENTS

TECHNICAL CONCERNS/PROBLEMS:

None

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<u>14</u>	<u>168</u>
"D" MOD	<u> </u>	<u> </u>
"D"	<u> </u>	<u> </u>
"C"	<u> </u>	<u> </u>
"B"	<u> </u>	<u> </u>
OTHER	<u> </u>	<u> </u>

DECONTAMINATION REQUIREMENTS: None

PERSONNEL:	EMPS. IN: <u> </u>	EMPS. OUT: <u> </u>
EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>
VENDERS EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>

ACCIDENTS/BREECHES OF PROCEDURES: None

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1

2

ACCIDENT/BREECHES REPORT: None

SECURITY: None

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-26-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)		Weather	
None on Site	David Christenson	ARCO	High 56,Low 50 Light showers, partly cloudy.	
Contractor Personnel Type	Subcontractors # (Name/Svcs.)		Major Equipment # On-Site	
EBASCO:			O=Operating S=Standby	
Gary L. Stiles C.M.1	OHM John Hoff	1	1-TD-4 Dozer O	
Mike Hsieh Res.Engr.1	Equip.oper	4	1-TD-5 Dozer S	
Gene Sosis C&S 1	Baker-equip op	2	1-Rayco 799	
	Truck drivers	4	Compacter S	
	On-site SecGuard	1	4-10Whl Dumps O	
	Dough Myers-survey	0	1-Water Wagon S	
	Empire Soils-Geotech	0	1-End Loaders O	
			1-580 Backhoe S	
Health and Safety Issues:			1-225 Backhoe O	
* All work in clean zones			1- Scraper S	

Health and Safety Issues:

- * All work in clean zones

- * Rain and wet conditions prevented dust problems.

*

Quality Control Issues:

- * None

Problems and Concerns:

- * North Dike Extension was to wet to work.

*

Resolution of Previous Problems/Concerns:

- * Kept contractor off North Dike Extension until dry.

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 9-26-91

Sampling Activities Today	Quantity	Contractor	% Completed
None			

Major Activities Today (Non-Sampling)

* Placed Topsoil at SLA area	= 720 CY	OHM	96%
* 60 loads @ 12 CY			
*			
*			

Major Activities Planned (Next 5 working days)

* Place Topsoil at SLA area	36 CY	OHM	4%
* Place clay at NDE	74 CY	OHM	12%
* Place Topsoil at NDE	50 CY	OHM	100%
* Place Bedding stone		OHM	100%
* Place Rip-Rap		OHM	100%

Summary Report:

*

Site Manager

Shirley J. Hester

Date

9-27-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 26, 1991
THURSDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1900 HRS
SHOWERS, COOL

MARK KRAVECZ, PM

OHM PERSONNEL:

1. J. HOFF	SUPERVISOR
2. J. ACCOMANDO	FOREMAN
3. M. DeCLERICO	EQPT OPER
4. J. CHAIRMONT	EQPT OPER
5. WM HUNT	REC TEC

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
225 EXCAV	4926
580 CASE TLE	365
2" PUMP & HOSE	4508
D-4 DOZER	3720

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
S/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS:

BAKERS OF JERICHO HILL
ALFRED, NY

SUPPLY & IMPORT TOP SOIL

MEETINGS:

0700 SAFETY MEETING: SLA TOP SOIL OPS, LSS TOP SOILING OPS,
FDWL WEATHER OPS.

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. DELIVER PLACE & GRADE TOP SOIL ON SLA & LLS SLOPE OF DIKE
TO COMPLETION.

MATERIAL RECEIVED:

1. TOP SOIL 720 CY EST @ 12CY/TRUCK/IN PLACE

SAMPLES TAKEN:

NONE

TAKEN BY:

N/A

LEVEL OF PROTECTION:

D

RECON:

NONE REQUIRED

NORTH DIKE EXTENSION:

1. NO ACTIVITY

MATERIALS RECEIVED:

1. CLAY FILL	0 CY	EST @ 100Y/TRUCK/COMPACTED
2. ROAD STONE	0 TON	
3. RIP RAP	0 TON	

SAMPLES TAKEN: NONE
TAKEN BY: N/A
LEVEL OF PROTECTION: D
DECDN: NONE REQUIRED

TECHNICAL CONCERNS & PROBLEMS

1. DIKE EXT.: LAND SIDE SLOPE UNSUITABLE FOR PROGRESS TODAY

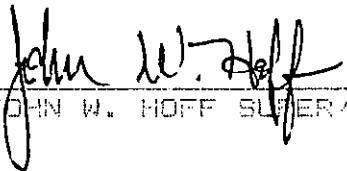
COMMENTS:

1. NONE

ACCIDENTS OR BREECHES OF PROCEDURES:

1. NONE

SUBMITTED FOR GHM BY:


JOHN W. HOFF SUPER/2759

9-26-91
(Fri)

AM. 71°F
Partially
Cloudy

- Arrive at site 7:30 am. Checked out from Longview.
- CHM resumed the north end dike extension, filling with shaving off excess fill to meet the section requirements.
- Left site at 2:20 pm for home visit

(18)

ARCO Wellsville
SLA Backfill & N. Dike Ext.
H & S Log # 1

9-26-91

6:45am Arrive at site - Temp 50°

7:00am Plan-of-Day:

- Complete T/S at SLA AREA.
- Resume clay at N. Dike ext. (NDE)

Weather report: 30% RAIN - partly cloudy then. Sun.

Safety tips:

- Be alert while working near equip.
- Make sure you have good footing while working slopes of Dike.

1:38pm All work areas are damp to wet - contractor not allowed to work on NDE due to soft wet material.

T/S is being placed at SLA.

5:20pm 18 min Dust Reading TWA .00mg/m³
Placing T/S at SLA

7:38 Left site - Temp 57°

Larry J. Hester

PROJECT ENTRY PERMIT

DATE: 9-26-91 **TIME IN:** 6:45 am **TIME OUT:** 7:40 pm

NAME: GARY L. Stiles

COMPANY: EBASCO

BADGE No: ~~0~~ E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

**SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM**

Date: 9/26/91

No./Name	Time In/Out		Time In/Out		Remarks
=====					
EBASCO		12:21			
Gary Stiles	6:45/9:08	1:07/1:40			
Mike Hsieh	7:38/12:08	12:53/2:20			
Eugene Sosis	7:51/12:08	12:53/6:28			
Joe Sbarra					
=====					
ARCO					
Dave Christensen	6:45/9:05	9:33/12:21	1:07/1:40	1:40/6:11	
=====					
DHM					
John Hoff	6:35/1:29	2:22/7:00			
John Accamando	6:35/12:50	2:05/7:00			
John Chirment	6:55/7:00				
Mike DeClerico	6:55/10:11	11:23/7:00			
Bill Hunt	6:55/10:11	10:34/11:05	11:55/12:50	2:05/7:00	
=====					
On-Site H+S					
Jon Palmer					
Jerry Palmer	7:00/3:56	6:10/7:00			
Chad Ketchner	3:30/6:15				
Visitors					
John Dixon	8:38/8:40	8:46/9:33	5:47/5:55		Bakers
Debra Howell	10:24/10:35	12:06/12:12	1:50/1:56	2:49/2:51	Army C.O.C.
Mike Hrivnak	11:00/walked out	12:06/1:01	1:47/2:03		Army C.O.C.
Orlando Smith	1:10/1:13				Fed Ex.
Charlie Baker	3:08/4:15				
Mrs. Christensen	6:00/6:11				
=====					
Russ Layton	12:34/12:40	12:56/1:03	1:28/1:30	1:44/1:48	2:24/2:33
	2:55/3:04	3:23/3:35	3:53/4:04	4:21/4:34	4:53/5:05
	5:22/5:30	5:47/5:55	6:12/6:28		
=====					
13 Total					

ARCO WELLSVILLE
CONSTRUCTION MANAGEMENT
DAILY REPORT
SEPTEMBER 25, 1991

Arrived at 6:45am, Temp. 56, It started raining at 7:20pm last night and has continued through out the night. (.71")

Inspected the NDE at 7:05am it is to wet to wrk on safely, I discussed this with John H. and he agrees.

Inspected the SLA area at 7:20am it is also to wet to work, told John H that I would look at it later if it6 stops raining. He put everyone hold.

I met with Dave C of ARCO and discussed the following issues.

- Final Report: A format needs to be developed and approved,
- Soil Sampling: Waste material from NDE, O.S. and Campus area, Niel is working on this.
- ARCO Office: Gave info on 3 locations that I had located, Dave will discusse with Walt.
- Final Inspection: Should notify the EPA that it could take place as early as Wed. or Thur. of next week. Dave will issue letter.
- Drums at Storage Yard: Need iventory of contents before we can start. Niel is working on this.
- Clearing of CELA: Purposed that this work be performed in Feb. 1992 to take advantage of the frozen ground.
- Material Purchase Option: Suggested that ARCO solict bids from 2 or 3 sources of each type of material required for next years work and consider issuing P.O.'s to purchase this them self, and stockpile on site.
- Slurry Wall Bid: This should be ready to put on the street by early 1992.

Called Niel and briefed him on project status and discussions with Dave.

It stopped raining at 10:35am, The wind is blowing at 10 to 15 mph, ground should dry fast.

Inspected the SLA area at 11:40am, some areas still wet but 60% is dry enough to work on so I approved the start of Top zSoil placement. Instructed OHM to not place material on wet areas until it is dry.

Witnessed first 6 loads of Top Soil being placed, No movement of sub surface movement was noted.

Rocco issued P.O. for On-Sites services.

Discussed outstanding items on Nov. 11, 1990 Inspection with Debbra H:

- a. Low area at Sta. 27+00 and RR track bed. This was taken care of last year.
- b. Seeding of Common fill area North end of East bank. This was taken care of at end of June 1992.
- c. Flow restrictor on 28"dia. CMP. This item is still open, Dave directed me to have one installed before this years inspection.

Called 5 pipe companies, 2 of them sell Flow Restrictors, none of them have one in stock and would take 10 days to get one, I went to Otis Eastern and talked with John Williams and Vic Black, they will build one and install it if I will give them a drawing to work from, I drew up a sketch of one and gave it to them with instructions to have it in-place by next wednesday.

Mike H. requested permission to go home Friday night and I agreed, He will be back Mon. morning.

Discussed completing Clay at NDE. so they could work the bedding and rip rap while the back slope is drying. John will look at this in the morning.

Gene gave me a copy of a cost report

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 9-25-91 DAY: Wednesday HRS. WRK. 12 REPORT NO. 91-10

WEATHER INFORMATION:

TEMPERATURE: High 56 Low 50 WIND: Mph. 3 to 5 Dir. SO.
PRECIPITATION: 0.70" Fell through out Night HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 0
H&SO 0 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 1
OTHERS 0 SUB. Down Myers
" 0 SUPV. EMPS 2
USCOE/EPA 1 SUB. 0
" 0 SUPV. EMPS
VISITORS 0
0
0
0
0
MANUAL OHM GEN. LABOR 2 EQUIP. OPER. 3

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dozer	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Back Hoe	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Back Hoe	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Compactor	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Compactor	<u>4-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dump Trk.	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dump Trk.	<u>4-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Others	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
"	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
"	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>

MEETINGS:

PLAN OF DAY

• Place Top soil at SLA

SAFETY

see Attached Safety Log

SCHEDULED

NONE

UN-SCHEDULED

NONE

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL:

• Place Top soil at SLA AREA.

NORTH DIKE EXTENSION:

• To wet to work on dike

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE			AGGREGATES	CY		
GEOWASTE MATERIAL	CY			TOP SOIL	CY	480	
CONTAMINATED WASTE	CY			GEOTEXTILE FAB	SY		
CLEAN	CY			BEDDING MATERIAL	TON		
TOE TRENCH	CY			GEOTEXTILE FAB	SY		
KEY TRENCH	CY			CLAYMAX	SY		
RIPRAP	TON			GEOMEMBRANE	SY		
				CLAY	CY		
				COMMON FILL	CY		
				RIPRAP	TON		
				MISC.			

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
TOP SOIL	CY			GEOTEXTILE FAB	SY		
AGGREGATES	CY	21		BEDDING MATERIAL	CY		
CLAYMAX	CY			GEOMEMBRANE	SY		
CLAY				EQUIP. FUEL & LUBE	GAL		
COMMON FILL				MISC.			
RIPRAP	TON	55		MISC.			
				MISC.			

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

See test report.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS				
SANITARY WASTE	GALS				
DEBRI	TON				
USED OIL/LUBE	GAL				
MISC.					

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

<u> </u>	Attached report required by Contract document
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "

COMMENTS

TECHNICAL CONCERNS/PROBLEMS:

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<u>16</u>	<u>192</u>
"D" MOD	<u> </u>	<u> </u>
"D"	<u> </u>	<u> </u>
"C"	<u> </u>	<u> </u>
"B"	<u> </u>	<u> </u>
OTHER	<u> </u>	<u> </u>

DECONTAMINATION REQUIREMENTS: None

PERSONNEL:	EMPS. IN: <u> </u>	EMPS. OUT: <u> </u>
EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>
VENDERS EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>

ACCIDENTS/BREECHES OF PROCEDURES: None

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1	<u> </u>
2	<u> </u>

ACCIDENT/BREECHES REPORT: None

SECURITY: See gate log

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-25-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
Debbra Howell BUFUSCOE		High 56, Low 50
	David Christenson ARCO	

Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating
Gary L. Stiles C.M.1	OHM John Hoff 1	S=Standby
Mike Hsieh Res.Engr.1	Equip.oper 5	1-TD-4 Dozer O
Gene Sosis C&S 1	Baker-equip op 2	1-TD-5 Dozer S
Joe Sabarra H&S 1	Truck drivers 4	1-Rayco 799
	On-site SecGuard 1	Compacter S
	Dough Myers-survey 2	4-10Whl Dumps O
	Empire Soils-Geotech0	1-Water Wagon S
		1-End Loaders O

Health and Safety Issues:

- * All work in clean zones

1-580 Backhoe S
1-225 Backhoe S
1- Scraper O

- * Rain and wet conditions prevented dust problems.

*

Quality Control Issues:

- * None

Problems and Concerns:

- * Rain through the night and to 11:00 AM today prevented placement of clay on the NDE.

*

Resolution of Previous Problems/Concerns:

- * Left NDE covered with plastic sheeting until dry enough to work safely.

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 9-25-91

Sampling Activities Today	Quantity	Contractor	% Completed
None			

Major Activities Today (Non-Sampling)

* Placed Topsoil at SLA area	508 CY	OHM	34%
*			
*			
*			

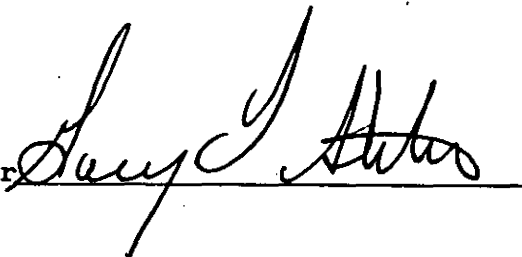
Major Activities Planned (Next 5 working days)

* Place Topsoil at SLA area	992 CY	OHM	66%
* Place clay at NDE	74 CY	OHM	12%
* place Topsoil at NDE	50 CY	OHM	100%

Summary Report:

- * Rain during the night and early morning made it unsafe to work the North Dike Extension, even though it had been covered with plastic sheeting.
- * The SLA area was wet on the top 1" to 1/2", so I approved Topsoil placement when rain stopped, the first load was dumped at 12:45 PM, with dozer working on top of dry material he was able to spread without problems.

Site Manager



Date

9-25-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 25, 1991
WEDNESDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1900 HRS
RAIN/AM, COOL

MARK KRAVEDZ, PM

OHM PERSONNEL:

1. J. HOFF	SUPERVISOR
2. J. ACCOMANDO	FOREMAN
3. M. DECLERICO	EQPT OPER
4. A. LIVINGSTON	REC TEC
5. ~~J. CHAMBERLAIN~~	EQPT OPER
6. WM. HUNT	REC TEC

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
225 EXCAV	4926
580 CASE TLB	365
2" PUMP & HOSE	4508
D-4 DOZER	3720

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
3/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS:

BAKERS OF JERICO HILL
ALFRED, NY

SUPPLY & IMPORT TOP SOIL

A. ATLAS STONE CORP
ALFRED, NY

DEL OF ROAD STONE

D. MYERS, PLS
ARCADE, NY

STAKE & GRADES ON DIKE

MEETINGS:

0700 SAFETY MEETING: SLIPS, TRIPS & FALLS, DIKE FILL OPS,
SLA TOP SOIL OPS.

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. DELIVER AND INSTALL TOP SOIL

MATERIAL RECEIVED:

1. CLAY FILL	0 CY	EST @ 10CY/TRUCK/COMPACTED
2. COMMON FILL	0 CY	EST @ 10CY/TRUCK/COMPACTED
3. TOP SOIL	408 CY	EST @ 12CY/TRUCK/IN PLACE

SAMPLES TAKEN:

NONE

TAKEN BY:

N/A

LEVEL OF PROTECTION:

D

DECON:

NONE REQUIRED

NORTH DIKE EXTENSION:

1. INSTALL STONE ON HAUL ROAD & FINE GRADE

MATERIALS RECEIVED:

1. CLAY FILL	0 CY	EST @ 10CY/TRUCK/COMPACTED
2. ROAD STONE	25.35 TON	HAUL ROAD RESTORATION
3. RIP RAP	52.65 TON	STOCK PILED

<u>SAMPLES TAKEN:</u>	NONE
<u>TAKEN BY:</u>	N/A
<u>LEVEL OF PROTECTION:</u>	D
<u>DECON:</u>	NONE REQUIRED

TECHNICAL CONCERNS & PROBLEMS

1. DIKE EXT.: RAIN HAS MADE LAND SIDE SLOPE UNSUITABLE FOR FURTHER PROGRESS TODAY (POSSIBLY TOMORROW).

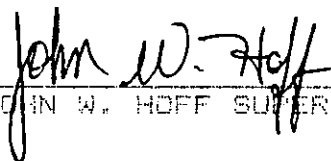
COMMENTS:

1. DEMOBE (1) REC TEC AS EXCESS TO CURRENT NEEDS.

ACCIDENTS OR BREECHES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:


JOHN W. HOFF SUPER/2759

9-25-91

AM: Rain
47°F

- Arrive at site 7:00 am
- Rained last night and continued in AM. The rainfall last night reached about $\frac{1}{2}$ in.
- OHM place plastic sheets on top of unfinished dike fill, but did not extend to the toe of the slope (not enough supply from the town). Site inspection indicates no runoff of turbid water beyond the berm and silt fence installed for erosion and sediment control. Slight wash-out of dike slope on the land side is observed.
- Survey crew staked out the centerline of the dike extension (station 0+00 to -2+40) with elevation marking. The top of the clay as-built elevation at the staked grid points was also surveyed.
- Wetness due to rain prevented resumption of the north end dike extension work.
- OHM started topsoiling the SLA area.
- Calculated the Volume of dike fill (clay) based on the surveyor's notes. The clay volume placed is calculated to be 7,363 cy. The original estimate was 7,400 cy.
- Left site at 7:00 pm

(16)

ARCO - Wellsville
SLA Backfill - N. Dike Extension
H+S Log # 1

09/25/91

0650

Arrive on-site

0700-0705

Attend OHM Safety briefing

Activities

access

- Dress up stone road by N. dike extension
- Spread, compact N. dike extension

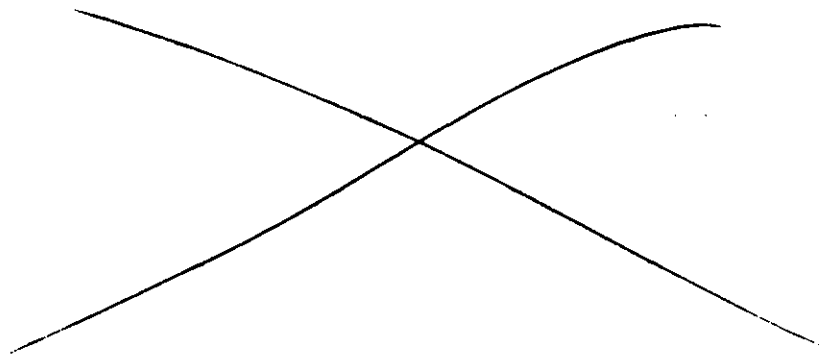
Watch for slips + trips - clay, viscous or slippery

Be careful on slope of dike - both machinery + personnel

Pack supplies instruments

0830

Leave jobsite for day.



Joseph L. Spina

9-25-91

8:30am Joe Sbarra - left site to return to Lyndhurst.

Rain continue to fall until 11:30am - CHM
did equipment maintenance and site clean-up

12:45pm started placing Top-Soil at SLA area. ~~SLA area~~7:10pm Left site ~~site~~ - Temp 56°

Gary J. Hester

PROJECT ENTRY PERMIT

DATE: 9-25-91 TIME IN: 10:45 am TIME OUT: 8:10 pm

NAME: GARY L Stiles

COMPANY: EBASCO

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

58° 1540

Date: 9/25/91

No./Name	Time In/Out		Time In/Out		Remarks
EBASCO					
Gary Stiles	6:45/12:57	12:58/1:01	1:36/3:16	3:57/	
Mike Hsieh	7:06/12:09	1:03/7:04			
Eugene Sosis	7:48/12:38	1:06/6:35			
Joe Sbarra					
ARCO					
David Christensen	6:45/10:58	12:21/3:16	3:57/6:10		
OHM					
John Hoff	6:45/7:38	8:07/9:16	9:57/10:15	10:21/7:05	
John Accamando	6:45/4:39	5:11/7:05			
Mike DeClerico	6:45/7:05				
John Clairmont	6:45/7:05				
Bill Hunt	6:45/8:15	9:18/12:00	12:40/7:05		
Algie Livingston					
On Site H+S					
Jon Palmer	7:00/7:22	11:58/1:41	7:11/7:13		
Jeary Palmer	7:00/7:03	7:20/12:05	1:33/7:13		
Visitors					
Todd Baker	8:43/9:00				
Mrs. Christensen	10:57/10:58	12:21/12:23	12:45/1:00	6:08/6:10	
ORLANDO SUTIN	1:04/1:09				FEDEX
Charlie Baker	1:43/3:17	4:12/4:18	4:32/4:58		
Patton's Busy Bee	2:12/2:19				
Randy Crooks	7:06/10:45	11:30/1:45			Design Office
Don Rye	7:06/10:46	11:30/1:45			"

Date: 9/25/91

Date: 9/25/91

No./Name		Time In/Out	Time In/Out	Remarks		
Roy Cartwright	T-8	7:40/7:45	8:10/8:14	8:36/8:40	9:03/9:07	9:32/9:36
		9:59/10:04	10:32/10:36	11:02/11:05	11:33/11:37	11:56/11:59
		12:26/12:30	12:55/12:59	1:22/1:24	1:52/1:57	2:19/2:26
		2:49/2:56	3:18/3:22	3:44/3:58		
Dale Baker	Dodge	8:05/8:09	8:15/8:18	8:30/8:34	8:56/9:00	9:23/9:27
		9:51/9:55	10:11/10:22	10:46/10:51	11:15/11:19	11:37/11:41
		12:08/12:12	12:34/12:39	1:02/1:05	1:25/1:33	1:54/2:01
		2:25/2:30	2:52/3:00	3:23/3:27	3:47/3:58	4:22/4:35
John Perkins	T-9	10:29/10:33	10:57/11:00	11:27/11:33	11:56/11:59	12:20/12:25
		12:50/12:53	1:16/1:25	1:47/1:53	2:16/2:25	2:58/3:04
		3:26/3:38				
Russ Layton	OREB	10:50/10:55	11:18/11:21	11:35/11:38	12:18/12:21	12:46/12:51
		1:13/1:23	1:46/1:49	2:14/2:18	2:41/2:45	3:09/3:14
		3:37/3:51				

ARCO WELLSVILLE
Construction Management
Daily Report
September 24, 1991

ARRIVED AT 6:40 AM Temp 54°

Inspected NDE for clay placement, Vegetation has been stripped to the depth and within area defined on contract document. Approved for clay placement (7:10am)

Asked John H-OHM why no clay trucks were RUNNING, He told me that Baker could only get 3 trucks and so they were going to haul Top-Soil. I told him that it would be after noon before Baker would be ready to load Top-soil and he could be loading clay at this time, John H didn't agree, I asked him to go with me to the top-soil pit, when we got there, no equipment or personnel were there and the area was still covered with vegetation, we then went to the clay pit and no one was there either, John said he would find Baker and start the clay.

First Clay truck arrived at 9:35am.

Discussed cost & schedule with Gene, he told me that he wasn't able to get the program to work, I told him he needs to get hold of his Lyndhurst counterparts and get it working, Told Gene that he only needs work 8 hr. days, starting today.

Mark K OHM showed up at 12:30pm - just visiting.

Inspected clay placement at NDE, Not placing clay to design grade, or using proper compaction techniques, Talked with John H. he will get it right.

Talked with Mark K and John H about my concern about amount and size of stone there is in the top-soil source.

Mark K told me that he had talked with Baker about my concern with top-soil, Baker will pick-out and select to comply with specs.

Told Joe Sparra HSO to return to Lyndhurst Wednesday 25th.

Dave C Arrived at 6:45pm.

Started raining at 7:20pm

OHM stopped work at 7:00pm - I left at 8:15pm

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 9-24-91 DAY: Tuesday HRS. WRK. 12 REPORT NO. 91-009

WEATHER INFORMATION:

TEMPERATURE: High 71 Low 50 WIND: Mph. 5-7 Dir. N/W
PRECIPITATION: Lite showers OFF ON HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 1
H&SO 1 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 1
OTHERS 0 SUB. Empire Soils
" 0 SUPV. EMPS 2
USCOE/EPA 1 SUB. 0
" 0 SUPV. EMPS
VISITORS 0
0
0
0
0
MANUAL OHM GEN. LABOR 2 EQUIP. OPER. 3

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1-12</u>			
Dozer	<u>1-12</u>			
Back Hoe				
Back Hoe	<u>1-6</u>	<u>6</u>		
Compactor				
Compactor	<u>1-6</u>	<u>6</u>		
Dump Trk.				
Dump Trk.	<u>4-12</u>			
Others				
"				
"				

MEETINGS:

PLAN OF DAY • Place top soil @ SLA.

SAFETY see Attached safety log

SCHEDULED None

UN-SCHEDULED None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL: • Placed Top-Soil.

NORTH DIKE EXTENSION: • Place clay fill.

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE		
GEOWASTE MATERIAL	CY	
CONTAMINATED WASTE	CY	
CLEAN	CY	
TOE TRENCH	CY	
KEY TRENCH	CY	
RIPRAP	TON	

TYPE UNIT EST. QTY.

AGGREGATES	CY	
TOP SOIL		
GEOTEXTILE FAB	SY	
BEDDING MATERIAL	TON	
GEOTEXTILE FAB	SY	
CLAYMAX	SY	
GEOMEMBRANE	SY	
CLAY	CY	340
COMMON FILL	CY	
RIPRAP	TON	
MISC.		

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TOP SOIL	CY	
AGGREGATES	CY	
CLAYMAX	CY	
CLAY		
COMMON FILL		
RIPRAP		

TYPE UNIT EST. QTY.

GEOTEXTILE FAB	SY	
BEDDING MATERIAL	CY	
GEOMEMBRANE	SY	
EQUIP. FUEL & LUBE	GAL	
MISC.		
MISC.		
MISC.		

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

See Empire Soils report

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS			
SANITARY WASTE	GALS			
DEBRI	TON			
USED OIL/LUBE	GAL			
MISC.				

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

REPORT NUMBERS

	Attached report required by Contract document					
~~_____~~	"	"	"	"	"	"
~~_____~~	"	"	"	"	"	"
~~_____~~	"	"	"	"	"	"
~~_____~~	"	"	"	"	"	"

COMMENTS _____

None

ACTIVITY PROTECTION LEVELS:

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	14	168
"D" MOD		
"D"		
"C"		
"B"		
OTHER		

PERSONNEL: EMPS. IN: _____ EMPS. OUT: _____
EQUIPMENT: IN: _____ OUT: _____
VENDERS EQUIPMENT: IN: _____ OUT: _____

NO.	TIME	LOCATION	EMP.NO./EQUIP.NO.	INJURY/DAMAGE	RESPONSE
1	11:00	1000	1000	1000	1000
2	11:00	1000	1000	1000	1000
3	11:00	1000	1000	1000	1000
4	11:00	1000	1000	1000	1000
5	11:00	1000	1000	1000	1000
6	11:00	1000	1000	1000	1000
7	11:00	1000	1000	1000	1000
8	11:00	1000	1000	1000	1000
9	11:00	1000	1000	1000	1000
10	11:00	1000	1000	1000	1000
11	11:00	1000	1000	1000	1000
12	11:00	1000	1000	1000	1000
13	11:00	1000	1000	1000	1000
14	11:00	1000	1000	1000	1000
15	11:00	1000	1000	1000	1000
16	11:00	1000	1000	1000	1000
17	11:00	1000	1000	1000	1000
18	11:00	1000	1000	1000	1000
19	11:00	1000	1000	1000	1000
20	11:00	1000	1000	1000	1000
21	11:00	1000	1000	1000	1000
22	11:00	1000	1000	1000	1000
23	11:00	1000	1000	1000	1000
24	11:00	1000	1000	1000	1000
25	11:00	1000	1000	1000	1000
26	11:00	1000	1000	1000	1000
27	11:00	1000	1000	1000	1000
28	11:00	1000	1000	1000	1000
29	11:00	1000	1000	1000	1000
30	11:00	1000	1000	1000	1000
31	11:00	1000	1000	1000	1000
32	11:00	1000	1000	1000	1000
33	11:00	1000	1000	1000	1000
34	11:00	1000	1000	1000	1000
35	11:00	1000	1000	1000	1000
36	11:00	1000	1000	1000	1000
37	11:00	1000	1000	1000	1000
38	11:00	1000	1000	1000	1000
39	11:00	1000	1000	1000	1000
40	11:00	1000	1000	1000	1000
41	11:00	1000	1000	1000	1000
42	11:00	1000	1000	1000	1000
43	11:00	1000	1000	1000	1000
44	11:00	1000	1000	1000	1000
45	11:00	1000	1000	1000	1000
46	11:00	1000	1000	1000	1000
47	11:00	1000	1000	1000	1000
48	11:00	1000	1000	1000	1000
49	11:00	1000	1000	1000	1000
50	11:00	1000	1000	1000	1000
51	11:00	1000	1000	1000	1000
52	11:00	1000	1000	1000	1000
53	11:00	1000	1000	1000	1000
54	11:00	1000	1000	1000	1000
55	11:00	1000	1000	1000	1000
56	11:00	1000	1000	1000	1000
57	11:00	1000	1000	1000	1000
58	11:00	1000	1000	1000	1000
59	11:00	1000	1000	1000	1000
60	11:00	1000	1000	1000	1000
61	11:00	1000	1000	1000	1000

1 _____
2 _____

ACCIDENT/BREECHES REPORT: None

SECURITY: See Gate Log.

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-24-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
Debbria Howell	BUFUSCOE	High 71, Low 50 Sunshine to mid-day w/light breeze. Partly to heavy clouds by evening.
	Mark Kravec	
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating
Gary L. Stiles C.M.1	OHM John Hoff 1	S=Standby
Mike Hsieh Res.Engr.1	Equip.oper 5	1-TD-4 Dozer O
Gene Sosis C&S 1	Baker-equip op 2	1-TD-5 Dozer S
Joe Sabarra H&S 1	Truck drivers 4	1-Rayco 799
	On-site SecGuard 1	Compacter O
	Dough Myers-survey 0	4-10Whl Dumps O
	Empire Soils-Geotech2	1-Water Wagon S
		1-End Loaders O

Health and Safety Issues:

- * All work in clean zones

1-580 Backhoe S
1-225 Backhoe O
1- Scraper S

- * Conducted periodic dust monitoring, ation level was not exceeded.
- * Conducted safety briefings for 2 personnel.

Quality Control Issues:

- * None

Problems and Concerns:

- * Compaction on slope of dike extension, OHM is having problem with working on steep slope.
- * Top Soil source appears to contain cobble stone larger than acceptable.

Resolution of Previous Problems/Concerns:

- * Instructed OHM to construct a working bench at the slope-toe and work it up to the crest, then fine grade slope with Back-hoe.
- * Discussed Topsoil with OHM supt., He met with Baker, they will pick out the cobble and screen if necessary

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 9-24-91

Sampling Activities Today	Quantity	Contractor	% Completed
None			

Major Activities Today (Non-Sampling)

* Placed compacted clay at NDE	41 load@14 CY	OHM	88%
*	= 574 CY		
*			
*			

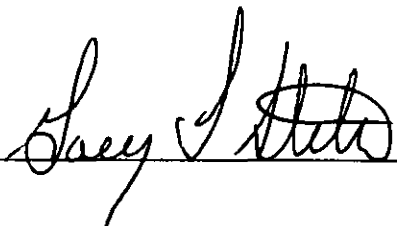
Major Activities Planned (Next 5 working days)

* Place Clay at NDE	76 CY	OHM	12%
* Place Topsoil at SLA area	1500 CY	OHM	100%
* Seed & Mulch SLA area		OHM	100%
* Place Topsoil at NDE	100 CY	OHM	100%

Summary Report:

* Placed clay at North Dike Extension. Clay & Topsoil vendor had problems with getting trucks to haul material, due to another project along Dike creek that is scheduled for another 4 wks work, all available trucks are hauling for that contractor, we have 8 trucks scheduled for us tomorrow.

Site Manager



Date

9-24-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 24, 1991
TUESDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1900 HRS
COOL, P' CLOUDY

OHM PERSONNEL:

1. M. KRAVEDZ	PROJ MGR
2. J. HOFF	SUPERVISOR
3. J. ACCOMANDO	FOREMAN
4. J. CHAIRMONTE	EQPT OPER
5. M. DECLERICO	EQPT OPER
6. WM. HUNT	REC TEC
7. A. LIVINGSTON	REC TEC

OHM EQUIPMENT:

BLAZER SEDAN	25.00
1-TON BOX TRUCK	423
225 EXCAV	4526
580 CASE TLE	340
2" PUMP & HOSE	4736
2-4 LOZER	3720

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
S/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS:

BAKERS OF JERICO HILL
ALFRED, NY

SUPPLY & IMPORT FILL

EMPIRE SOILS INVESTIGATION
ROCHESTER, NY

COMPACTION TESTING

A. ATLAS STONE CORP
ALFRED, NY

DEL OF ROAD STONE

MEETINGS:

0700 SAFETY MEETING: DIKE FILL OPS, LAND SIDE SLOPE FILL &
COMPACTION OPS, FINAL SLA COMPACTION REQUIREMENTS, PREP FOR
TOPS SOIL.

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. INSTALL 50' GRID FOR SUB GRADE AS BUILT(S).
2. 'GRUB' LAND SIDE SLOPE OF DIKE.

MATERIAL RECEIVED:

1. CLAY FILL	0 CY	EST @ 10CY/TRUCK/COMPACTED
2. COMMON FILL	0 CY	EST @ 10CY/TRUCK/COMPACTED

SAMPLES TAKEN: COMPACTION TESTING, Final
TAKEN BY: EMPIRE SOILS, INC.
LEVEL OF PROTECTION:
DECON:

D
NONE REQUIRED

NORTH DIKE EXTENSION:

1. INSTALL & COMPACT CLAY FILL
2. GRADE ACCESS ROAD, INSTALL STONE FINISH
3. GRADE HAUL ROAD

1.	CLAY FILL	410 CY	EST @ 10CY/TRUCK/COMPACTED
2.	ROAD STONE	41.2 TON	ACCESS ROAD RESTORATION

SAMPLES TAKEN: AIR MONITORING
TAKEN BY: EBASCO H&S
LEVEL OF PROTECTION: D
DECON: NONE REQUIRED

TECHNICAL CONCERNS & PROBLEMS

1. COMPACTION OF LAND SLIDE SLOPE.

COMMENTS:

1. NONE

ACCIDENTS OR BREECHEES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:


JOHN W. HOFF SUPER/2759

7/24/91

(Tue)

Am: Foggy
Sunny

- Arrive at site 7:00 am
- Faxed an FCR on common fill compaction to V. Patel.
- Stakes were set at 50 ft interval with marking to indicate top of topsoil placement.
- OHM started filling the North End Dike with dike fill material (same material being used in backfilling SLA). A cat. backhoe was used to fill and compact the dike slope.
- Empire testing conducted 3 in-place density and moisture content tests by Nuclear method and one sand cone test for confirmation purpose. The density readings are all higher than 95% Proctor, however, moisture content readings are less than the optimum. Empire also took a bag of soil sample for gradation analysis in the lab.
- Site visit by a representative from USACE Buffalo Office.
- Left site at 7:00 pm

9/23/91

(Mon)

M: Rain

57°F

PM Sunny

- Arrive at site 7:00 am.
- Rained intermittently throughout AM. Sun broke out in PM.
- A site specific Health and Safety briefing was conducted by the SSO, participated by all Ebasco and OHM employees.
- OHM started the North End dike extension work. The top 6" of the existing dike is stripped and temporarily stored in CELA with silt fence around the storage pile.
- Advised by the SSO not to enter the stripping area since I do not have a 40-hr H&S training. Observation was made outside the security fence.
- Left the site at 7:00 pm.

ARCO - Wellsville
SLA Backfill - N. Dike Extension
H+S Log #1

(13)

09/24/91

0700 Arrive on-site

Weather - foggy, 38°F, calm

0845 Activities on-site

Staking SLA for topsoil

Waiting for clay delivery N. dike extension

0950 First truck with clay fill arrives

1015 At N. Dike extension area

Potential problem: Digger precedes dump truck to end of extension where ^{clay} fill is dumped. Isn't dike still contaminated? If so, both the digger and the truck are contaminated, digger operator has no chemical protective PPE. I stop truck at decon pad and tell him to wait.

1020 At SZ, talk to J Hoff, inform him of my concern.

He tells me only surface soil was contaminated, dike is clean. He says they'll cover surface anyway.
Joseph L. Starna

(14)

AKCO - Wellsville
SLA Backfill - N. Dike Extension
H+S Log #1

01/24/91

1025 Tell truck driver at gate to N. dike he's OK, and can leave.

1140-1145

Brief Debra Howell (USACE)

- 1910.120 does not apply as chemical contamination is not expected to be encountered.
- PPE - hardhat, safety glasses, sturdy work shoes
- No smoking, eating, drinking
- Emergency - evacuate to gate at SZ, will be told verbally or hear 1 long continuous air horn blast

1150-1155

Brief J.F. (red) Johnson (Empire Soils tester)

Same as above presented.

1210-1310

Lunch

1345-1400

15-minute dust reading - .00 mg/m^3

Activity - dump clay, push clay on top of dike extension, backhoe spreads on left side of dike

~~Joseph L. Stairs~~

ARCO - Wellsville
SLA Backfill - N. Dike Extension
HVS Log # 1

(15)

09/24/91

1450-1505

15-minute dust ^{JLS} reading - .00 mg/m^3

Activities: dump clay, spread with dozer, spread + pack
on side of N dike with trackhoe

1540-1555

~~1540-1655~~

15-minute dust reading - .00 mg/m^3

Activities: dump clay, spread with dozer, spread + pack
bank of N. dike with track-hoe

1645-1700

15-minute dust reading - .00 mg/m^3

Activities - dump clay, spread on top of dike with dozer.

1745-1800

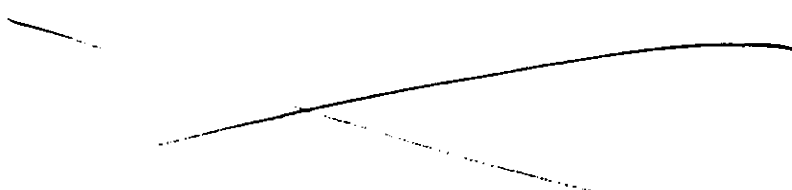
15-minute dust reading - .08 mg/m^3

Activities - dump clay, spread with dozer on top
of N dike extension.

A Very slight breeze lead to ↑ reading.

1845

Leave jobsite for day



Joseph L. Sbana

PROJECT ENTRY PERMIT

DATE: 9-24-91 TIME IN: 6:20 AM TIME OUT: 8:15 pm

NAME: GARY L. Stiles

COMPANY: EBASCO

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

Precip: None

Date: 9/24/51

Date: 9/24/91

No./Name		Time In/Out	Time In/Out	Remarks
EBASCO				
GARY Stiles	6:20/7:51	8:13/10:16	10:28/2:48	3:01/
Eugene Sosis	7:01/			
Mike Hsieh	7:05/12:06	12:58/1:56		
Joe Sparran	7:03/7:51	8:13/12:11	1:22/6:46	
DHM				
John Hoff	6:40/8:30	8:54/11:05	11:24/11:29	11:55/1:36 2:02/6:48
John Clairmont	6:40/6:48			
John Acamondo	6:40/11:29	11:35/5:14	5:37/6:48	
Mike Deckerico	6:40/6:48			
Bill Hunt	6:58/11:28	12:08/3:07		
Algie Livingston	6:58/3:07			
Mark Kravitz	12:20/1:36	2:02/4:01	4:25/6:48	
On-Site HS				
Jon Palmer	6:57/7:03	9:44/9:54	12:18/12:18	
Jerry Palmer	6:57/9:07	9:13/12:18	1:21/7:00	
Visitors				
Charlie Baker	7:13/7:18	4:37/5:50		Bakers
Todd Baker	7:25/8:02			Bakers
Chad Ketchner	9:28/1:31			On-Site
Roy Cartwright	11:28/11:33			Bakers
Debra Howell	11:55/11:51	2:17/2:42	3:33/5:42	Corps. of Eng.
Dab Blackmore	11:41/11:43	11:51/12:29		Empire Soils
James Johnson	11:51/2:07			Empire Soils
Buck Williams	12:09/2:19			Adams Seismic
Orlando Smith	3:06/3:11			Fed. Ex.
Keith Goodliff	3:00/4:34	6:36/7:00		

Date: 9/24/91

Date: 9/24/91

[illegible]

FILL MATERIAL ABOVE WATER SURFACE

FORM ..-5

SHEET 1 OF 1INSPECTION DATE 9-24-91

1. MATERIAL	ACCEPT	REJECT	N/A
- BORROW MATERIAL OBTAINED FROM BORROW AREA APPROVED BY CONSTRUCTION MANAGER	_____	_____	✓
- FREE OF DEBRIS, ROOTS, ORGANIC OR FROZEN MATERIAL, STONES 3 INCH AND LARGER IN EQUIVALENT DIAMETER	_____	_____	✓
2. PLACEMENT			
- INSPECT KEY TRENCH FOR FREE STANDING WATER AND/OR ORGANIC MATERIAL BEFORE PLACEMENT OF DIKE FILL	_____	_____	✓
- EXISTING GRADE IS SCARIFIED	_____	_____	✓
- MAXIMUM LOOSE LIFT OF 12"			
- INSPECT LAYER OF FILL OR EXISTING GRADE FOR PROPER MOISTURE CONTENT ($\pm 2\%$ OF OPTIMUM) PRIOR TO PLACEMENT OF NEXT LIFT.	_____	_____	✓
- SURVEYOR VERIFY DIKE ALIGNMENT, SLOPES, CONFIGURATION AND DIMENSIONS IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.	_____	_____	✓
3. VERIFICATION TESTING			
- 1 DENSITY TEST FOR EACH 750 CU. YDS. OR EACH AREA COMPLETED IN ONE DAY WHICHEVER IS LESS (AT LEAST 95% OF MAXIMUM DRY DENSITY)	✓	_____	_____
- 1 MOISTURE CONTENT TEST (BETWEEN $+2\%$ AND -2% OF OPTIMUM) FOR EACH 750 CU. YDS. OR EACH AREA COMPLETE IN ONE DAY WHICHEVER IS LESS.	✓	_____	_____

4. DUST CONTROL
ACTION TAKEN: None

5. FILL LOCATION SLA
DIKE STATION Sta 22+50 TO Sta 27+00

6. REMARKS Verification testing on fill placed 9-21-91.

INSPECTOR Mike Hsieh DATE 9-24-91

REVIEWED BY Gary J. Hilder DATE 9-24-91

EMPIRE

OILS INVESTIGATIONS INC.

- ☐ 5 KNABNER ROAD, P.O. BOX 2199, BALLSTON SPA, NY 12020 518/899-7491
☐ S-5167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716/649-8110
☐ 105 CORONA AVENUE, GROTON, NY 13073 607/898-5881
☐ 140 TELEGRAPH ROAD, P.O. BOX 297, MIDDLEPORT, NY 14105 716/735-3502
☐ 4287 WITMER ROAD, B.P.O. BOX 188, NIAGARA FALLS, NY 14305-0188 716/297-5981
☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14467 716/359-1950
☐ 35 NATIONAL ROAD, EDISON, NJ 08817 908/287-2224
☐ MORGANTOWN BUS PARK, P.O. BOX 189, MORGANTOWN, PA 19543 215/286-6657

Test No.	Date of Test	Depth or Elevation	In-place Density (pcf)	In-place Moisture (%)	% Compaction	Proctor Code	Location and Remarks
1	9/24	56	121.1	6.2	96.0	91-352	75' So of Common FILL AREA @ SG
2	↓	↓	126.5	7.3	100.7	↓	175' " " " "
3	↓	↓	125.2	6.7	99.2	↓	220' " " " "
*4	↓	↓	122.2	7.1	96.9	↓	75' " " " "
							* test #4 was SAND CONE METHOD
							@ test #1 LOCATION

* test #4 was SAND CONE METHOD
@ test #1 LOCATION

Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source
15352	126.1	9.6	

Remarks: _____

EMPIRE SOILS INVESTIGATIONS, INC.

Technician Time: 1000/1145 (NL) 200 | 345 180 mi RT
Technician: JFS

ARCO WELLSVILLE
Construction Management
Daily Report
September 23, 1991

Arrived at 6:45am, Temp. 54° w/lt drizzle.

Joe Sbarra HSO is back on-site today. and conducted a site specific H&S training session in conjunction with "Plan-Of-Day" meeting. All personnel required to perform work in the area of Vegetation Stripping at NDE was present.

Performed a walk thru of activities required for construction of North Dike ~~at the North Dike Area~~ at the North dike area, with EBASCO and OHM personnel, to assure that all have a good understanding of required activities.

Representatives of the Buffalo USCOE District came in at 10:15am, I gave them a briefing on the SOW and Activity schedule, Reps. were Paul Rozlul & Debbra Howell. Debbra will be the on-site rep.

Dave C-ARCO called, I gave him status of project,

He will be on-site around 7:00pm.

Ordered 6 Bottles of drinking water from Culligan Stewart Co.

Called John Cherko X6291 and discussed concern with Gene's ability to do the cost & schedule. John will see what he do to help.

Fred Mageroy X6210 called regarding the set-up of the Modem, He talked with Gene and John C but was confused as to what the problem was, I went to the computer so he could walk me thru the hook-up & load, will need adaptor to hook-up to our computer.

DAVE C Arrived at 7:10pm.

Tom G. Called

- I gave him Project Status,
 - SLA-clay 97%, Common - 98%.
 - NDE-Mobe 100%, Erosion Control 100%, Stripping 50%.
- Discussed problem with cost & Schedule Report with him.
- Gave him details of Dave & Marks Agreement on NDE Mobe / Demobe.
- Discussed Final Report, he will get with Vinu.
 - As-built drawing
 - Report Format

OHM stopped at 7:00pm ~ I left site at 7:15pm

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 9-23-91 DAY: Monday HRS. WRK. 12 REPORT NO. 91-008

WEATHER INFORMATION:

TEMPERATURE: High 54 Low 44 WIND: Mph. 3 to 5 Dir. NW
PRECIPITATION: Light Drizzle HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 0
H&SO 1 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 0
OTHERS 0 SUB. 0
" 0 SUPV. EMPS
Paul Kozlowski 2 BUFUSOE SUB. 0
Debbra Howell " 1 SUPV. EMPS
USCOE/EPA 1
VISITORS 0
0
0
0
0
0
MANUAL OHM GEN. LABOR 3 EQUIP. OPER. 3

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dozer	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Back Hoe	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Back Hoe	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Compactor	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Compactor	<u>1-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dump Trk.	<u>3-12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dump Trk.	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Others	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
"	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
"	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>

MEETINGS:

PLAN OF DAY

- Continue to fine grade SLA.
- Mobilize to North DiKE Extension AREA.
- Start Stripping Vegetation @ NDE.

SAFETY

- Held site specific training.
see Safety log sheets

SCHEDULED

- USCOE-BUE Paul Kazal & Debbra Howell.
Briefed them on North DiKE Extension.

UN-SCHEDULED

NONE

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL:

- Fine graded SLA Backfill AREA.
- Mobilized Equipment & personnel to NDE.
- Set-up Erosion control fences.
- Stripped Vegetation from NDE fill area
AND Transported to CELA.

NORTH DIKE EXTENSION:

- Mobilized Equipment & Personnel to NDE.
- Set-up Erosion Control fences.
- Developed Access & Haul roads.
- Stripped Vegetation from NDE fill area
AND Transported to CELA.

MATERIALS HANDLED:

TYPE UNIT EST. QTY.		TYPE UNIT EST. QTY.	
CLEARING BRUSH ACRE		AGGREGATES	CY
GEOWASTE MATERIAL	CY	TOP SOIL	
CONTAMINATED WASTE	CY 100	GEOTEXTILE FAB	SY
CLEAN	CY	BEDDING MATERIAL	TON
TOE TRENCH	CY	GEOTEXTILE FAB	SY
KEY TRENCH	CY	CLAYMAX	SY
RIPRAP	TON	GEOMEMBRANE	SY
		CLAY	CY 110
		COMMON FILL	CY 10
		RIPRAP	TON
		MISC.	

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.		TYPE UNIT EST. QTY.	
TOP SOIL	CY	GEOTEXTILE FAB	SY
AGGREGATES	CY	BEDDING MATERIAL	CY
CLAYMAX	CY	GEOMEMBRANE	SY
CLAY		EQUIP. FUEL & LUBE	GAL
COMMON FILL		MISC.	
RIPRAP		MISC.	
		MISC.	

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

No test taken today

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS			
SANITARY WASTE	GALS			
DEBRI	TON			
USED OIL/LUBE	GAL			
MISC.				

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

<u> </u>	Attached report required by Contract document
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "
<u> </u>	" " " " " "

COMMENTS

TECHNICAL CONCERNS/PROBLEMS:

None

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<u>8</u>	<u>96</u>
"D" MOD	<u> </u>	<u> </u>
"D"	<u>4</u>	<u>48</u>
"C"	<u> </u>	<u> </u>
"B"	<u> </u>	<u> </u>
OTHER	<u> </u>	<u> </u>

DECONTAMINATION REQUIREMENTS: None

PERSONNEL:	EMPS. IN: <u> </u>	EMPS. OUT: <u> </u>
EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>
VENDERS EQUIPMENT:	IN: <u> </u>	OUT: <u> </u>

ACCIDENTS/BREECHES OF PROCEDURES: None

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1

2

ACCIDENT/BREECHES REPORT: None

SECURITY: See Gate Log.

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-23-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
Paul Kozlowl BUFUSCOE		High 54,Low 44
Debbria Howell BUFUSCOE		Lite drizzle in the AM w/heavy clouds, clearing in the PM.
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating
Gary L. Stiles C.M.1	OHM John Hoff 1	S=Standby
Mike Hsieh Res.Engr.1	Equip.oper 5	1-TD-4 Dozer O
Gene Sosis C&S 1	Baker-equip op 2	1-TD-5 Dozer O
Joe Sabarra H&S	Truck drivers 3	1-Rayco 799 O/S
	On-site SecGuard 1	Compacter O
	Dough Myers-survey 0	3-10Whl Dumps O
	Empire Soils-Geotech0	1-Water Wagon S
		2-End Loaders O

Health and Safety Issues:

- * Conducted site-specific H&S training for 8 personnel.
- * Performed periodic real-time dust monitoring - no action levels were exceeded.
- * N. Dike extension area level of protection - modified D.

Quality Control Issues:

- * None

Problems and Concerns:

- * Drizzle this morning prevented work on the fine grading.

Resolution of Previous Problems/Concerns:

- * Kept equipment off fill area until dry enough to work (11:30 AM)

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 9-23-91

Sampling Activities Today	Quantity	Contractor	% Completed
None			

Major Activities Today (Non-Sampling)

* Placed compacted clay		OHM	100%
* Placed common fill		OHM	100%
* Mobilize to N.Dike Ext.		OHM	100%
* Strip vegetation at NDE		OHM	100%

Major Activities Planned (Next 5 working days)

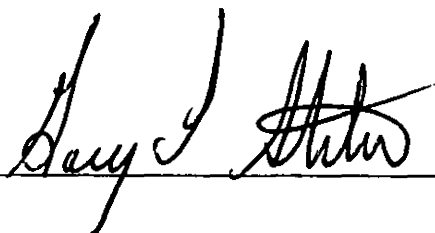
* Place Top Soil - SLA	1500 CY	OHM	100%
* Place Clay at NDE	650 CY	OHM	100%
* Construct Temp haul road		OHM	100%
* Upgrade Access Road	350 CY	OHM	100%

Summary Report:

* Mobilize personnel & equipment to North Dike Ext., Set
Erosion & sediment controls, Set-up Decon pad & equipt.
Started stripping vegetation (6") off dike slopes &
Road-way at 10:30 AM. Completed at 5:30 PM, Decon equipt.

* Completed fine grading of SLA Backfill area and common
fill area.

Site Manager



Date

9-23-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 23, 1991
MONDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1900 HRS
COOL, SHOWERS

OHM PERSONNEL:

1. J. HOFF	SUPER
2. J. ACCOMANDO	FOREMAN
3. M. DeCLERICO	EQPT OPER
4. J. CHAIRMONT	EQPT OPER
5. A. LIVINGSTON	REC TEC
6. WM. HUNT	REC TEC

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
225 EXCAV	4926
580 CASE TLB	365
2" PUMP & HOSE	4508
D-4 DOZER	3720

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
S/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS:

BAKERS OF JERICHO HILL
ALFRED, NY

SUPPLY & IMPORT FILL

MEETINGS:

0700 SAFETY MEETING: DIKE STRIPPING OPS, LEVEL(S) OF PROTECTION, ADDRESS CONCERNS OF LAND SIDE SLOPE OPS, ETC, SLA SUBGRADE(S)
1000 SAFETY MEETING W/EBASCO H&S REP: SSP REVIEW, EMERGENCY PROCEDURES, LEVELS OF PROTECTION, SITE HISTORY, CONTAMINATE(S).

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. SUBGRADE, AS PER G.STYLES/EBASCO DIRECTION. SLOPE TO DIKE AND NORTH, DELETE SWALE, BLEND TO TREE LINE AND ROAD SURFACE.

MATERIAL RECEIVED:

1. CLAY FILL	110 CY	EST @ 10CY/TRUCK/COMPACTED
2. COMMON FILL	10 CY	EST @ 10CY/TRUCK/COMPACTED

SAMPLES TAKEN: NONE

TAKEN BY: N/A

LEVEL OF PROTECTION:

DECON:

D

NONE REQUIRED

NORTH DIKE EXTENSION:

1. STRIP TOP SOIL, STOCKPILE AND SECURE AT NORTH END OF CELA.

<u>MATERIAL RECEIVED:</u>	NONE
<u>SAMPLES TAKEN:</u>	AIR MONITORING
<u>TAKEN BY:</u>	EBASCO H&S
<u>LEVEL OF PROTECTION:</u>	MOD D
<u>DECON:</u>	WASH TRUCK & EDPT W/WATER DISPOSE OF PPE

TECHNICAL CONCERNS & PROBLEMS

1. WORKING LAND SIDE SLOPE OPS

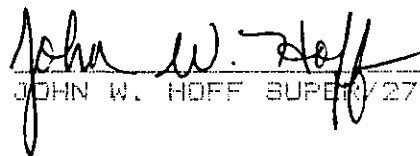
COMMENTS:

1. STRIPPING OPS WENT WELL

ACCIDENTS OR BREECHEES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:


JOHN W. HOFF SUPERV/2759

ARCO - Wellsville - N Dike Extension

SLA Backfill

H+S Log #1

⑩

12311

0645

Arrive on-site

1030

Weather conditions - light rain, ⁵⁶~~65~~° F, overcast,
slight breeze.

1140

0710

Review OHM + OHM subcontractor records.

14

90 JUL

0725

Inform Mr. Hoff of information missing for medical
+ Training.

130

0830-0855

Conduct site-specific H+S Training for site
personnel

0910

Repro MIE Minimax SN 4508 - New value 1.96 mg/m³

1015-1030

Take pictures of N. dike extension area prior
to start of work

Joseph L. Starna

ARCO - Wellsville
SLA Backfill / N. Dike Extension
HYS Log #1

⑪

09/23/11

1030 OHM Workers start setting up silt fence to protect wetland area. - Prior to excavation

1140-1155 15 minute dust reading - .00 mg/m³
Activity - excavate top 6" of N dike extension
PPE for personnel in EZ - level D, disposable cotton coveralls, rubber boots, work gloves
JLS

1300-1345 Lunch

1400-1415 15-minute dust reading - .00 mg/m³
Activity - grading soil with dozer - SLA backfill
Weather - partly sunny, no rain, S wind - breezy

1445-1500 15-minute dust reading - .03 mg/m³
Activity - excavation of 6" N. dike extension
load dump truck with soil.

~~Wind W - steady breeze~~

Joseph L. Stana

(12)

ARCO - Wellsville
SLA Backfill - N. Dike Extension
HVS Log #1

09/23/91

1615-1630

15-minute dust reading - $.02 \text{ mg/m}^3$

Activity - excavate 6" soil - N. dike extension,
load soil into dump truck

07

1700-1706

6 minute dust reading - $.02 \text{ mg/m}^3$

Activity - grading SLA with dozer

09

- Work on safety reports.

1900

Leave jobsite for day

09

10.

10

Date: 9/23/91

Date: 9/23/91

No./Name		Time In/Out	Time In/Out	Remarks
EBASCO				
Gary Stiles	6:50/11:14	11:46/1:22	1:35/7:09	
Engene Sosis	6:55/12:12	12:46/7:05		
Mike Hsieh	7:03/12:12	12:57/7:04		
Joe Shazza	6:45/12:51	1:45/7:05		
OHM				
John Heft	6:30/10:32	11:20/7:13		
John Clairmont	6:30/7:13			
John Acamonda	6:30/7:13			
Mike Deslerico	6:30/7:13			
Bill Hunt	6:30/3:28	4:39/7:13		
Algie Livingston	6:30/11:42	12:00/7:13		
On-Site A+S				
Jon Palmer	7:54/7:58	10:29/10:32		
Jerry Palmer	7:00/9:08	1:04/		
Chad Ketchner	8:32/3:09			
Visitors				
Charlie Baker	6:51/7:20	11:37/11:55	1:12/1:13	1:23/1:35 1:56/1:58
Todd Baker	8:51/9:19	9:34/9:45		Bakers
Jim Fisher	8:51/9:19	9:34/9:45		Bakers
Debra Howell	12:10/1:22	1:35/1:52	3:45/3:49	U.S. Army
Paul Kozlowski	12:10/1:22	1:35/1:52	3:45/3:49	Cops.
Don Pye	1:47/1:51			Bakers
Fed. Ex.	12:12/12:15			
Dale Baker	9:03/10:00	10:31/ ~~10:32~~ 6:40		
Russ Layton	1:22/1:25	1:43/1:46	2:03/2:06	2:25/2:28 2:46/2:48
	3:09/3:12	3:29/3:33	3:52/4:02	4:19/4:32 4:52/5:11

ARCO WELLSVILLE
CONSTRUCTION MANAGEMENT
Daily Report
September 22, 1991

ARRIVED AT 7:10 AM Temp. 43°

I came in today to bring the paper work up to-date, AND try to get the schedule resource loaded.

Worked on daily reports until 10:00am.

Gene Sosis came in at 10:00am, work with him coding ~~loading~~ Billibles so he will know how gather the information to update cost report.

John H OHM came in at 10:20am, he said that he is behind with his paper work and he has 2 new men coming in some time during the day.

2 OHM men came in at 12:30pm
John Accomando & Mike Dellerico.

Every body left by 5:00pm.

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 9-22-91 DAY: Sunday HRS. WRK. 9 REPORT NO. 91-007

WEATHER INFORMATION:

TEMPERATURE: High 54° Low 43 WIND: Mph. 5-7 Dir. NW
PRECIPITATION: 0 HUMIDITY: 0

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 0 P.M. 0
H&SO 0 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 0
OTHERS 0 SUB. 0
" 0 SUPV. EMPS
USCOE/EPA 0 SUB. 0
" 0 SUPV. EMPS
VISITORS 0
0
0
0
0
0
MANUAL OHM GEN. LABOR 0 EQUIP. OPER. 2

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Dozer	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Back Hoe	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Back Hoe	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Compactor	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Compactor	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Dump Trk.	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Dump Trk.	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Others	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
"	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
"	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>

MEETINGS:

PLAN OF DAY No work in field was performed today.

SAFETY NONE

SCHEDULED NONE

UN-SCHEDULED NONE

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
SLA BACKFILL: _____

- only paper work was performed today.
- OHM John H came in to get his paper caught up.
- 2 new OHM people came in at noon.

NORTH DIKE EXTENSION: No - Work

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE	
GEOWASTE MATERIAL	CY
CONTAMINATED WASTE	CY
CLEAN	CY
TOE TRENCH	CY
KEY TRENCH	CY
RIPRAP	TON

TYPE UNIT EST. QTY.

AGGREGATES	CY
TOP SOIL	
GEOTEXTILE FAB	SY
BEDDING MATERIAL	TON
GEOTEXTILE FAB	SY
CLAYMAX	SY
GEOMEMBRANE	SY
CLAY	CY
COMMON FILL	CY
RIPRAP	TON
MISC.	

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TOP SOIL	CY
AGGREGATES	CY
CLAYMAX	CY
CLAY	
COMMON FILL	
RIPRAP	

TYPE UNIT EST. QTY.

GEOTEXTILE FAB	SY
BEDDING MATERIAL	CY
GEOMEMBRANE	SY
EQUIP. FUEL & LUBE	GAL
MISC.	
MISC.	
MISC.	

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS			
SANITARY WASTE	GALS			
DEBRI	TON			
USED OIL/LUBE	GAL			
MISC.				

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

<u> </u>	Attached report required by Contract document					
<u> </u>	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"
<u> </u>	"	"	"	"	"	"

COMMENTS

TECHNICAL CONCERNS/PROBLEMS:

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<u> </u>	<u> </u>
"D" MOD	<u> </u>	<u> </u>
"D"	<u> </u>	<u> </u>
"C"	<u> </u>	<u> </u>
"B"	<u> </u>	<u> </u>
OTHER	<u> </u>	<u> </u>

DECONTAMINATION REQUIREMENTS:

PERSONNEL:	EMPS. IN:	EMPS. OUT:
EQUIPMENT:	IN:	OUT:
VENDERS EQUIPMENT:	IN:	OUT:

ACCIDENTS/BREECHES OF PROCEDURES:

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1	<u> </u>
2	<u> </u>

ACCIDENT/BREECHES REPORT:

SECURITY: See Entry Permits.

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 22, 1991
SUNDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NC

1000-1700 HRS

OHM PERSONNEL:

1. J. HOFF	SUPER
2. J. ACCOMANDO	FOREMAN
3. M. DECLERICO	EQPT OPER

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
225 EXCAV	4926
580 CASE TLE	365
2" PUMP & HOSE	4508
D-4 DOZER	3720

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
S/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS: NONE

MEETINGS:

OVER VIEW OF SPEC, BLUE PRINTS, ETC ON DIKE EXTENSION OPS.
SITE WALK OF WORK AREA. LEVEL(S) OF PROTECTION. ADDRESS
CONCERNS OF LAND SIDE SLOPE OPS, ETC.

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. NONE.

MATERIAL RECIEVED:

1. CLAY FILL	0 CY	EST @ 10CY/TRUCK/COMPACTED
2. COMMON FILL	0 CY	EST @ 10CY/TRUCK/COMPACTED

SAMPLES TAKEN: NONE

TAKEN BY: N/A

LEVEL OF PROTECTION:

DECON:

D
NONE REQUIRED

NORTH DIKE EXTENSION: NONE

MATERIAL RECIEVED: NONE

SAMPLES TAKEN: NONE

TAKEN BY: N/A

LEVEL OF PROTECTION: N/A

DECON: N/A

TECHNICAL CONCERNS & PROBLEMS

1. WORKING LAND SIDE SLOPE OF DIKE EXT. DIFFICULTIES.

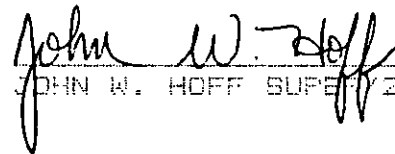
COMMENTS:

1. NONE

ACCIDENTS OR BREECHEES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:

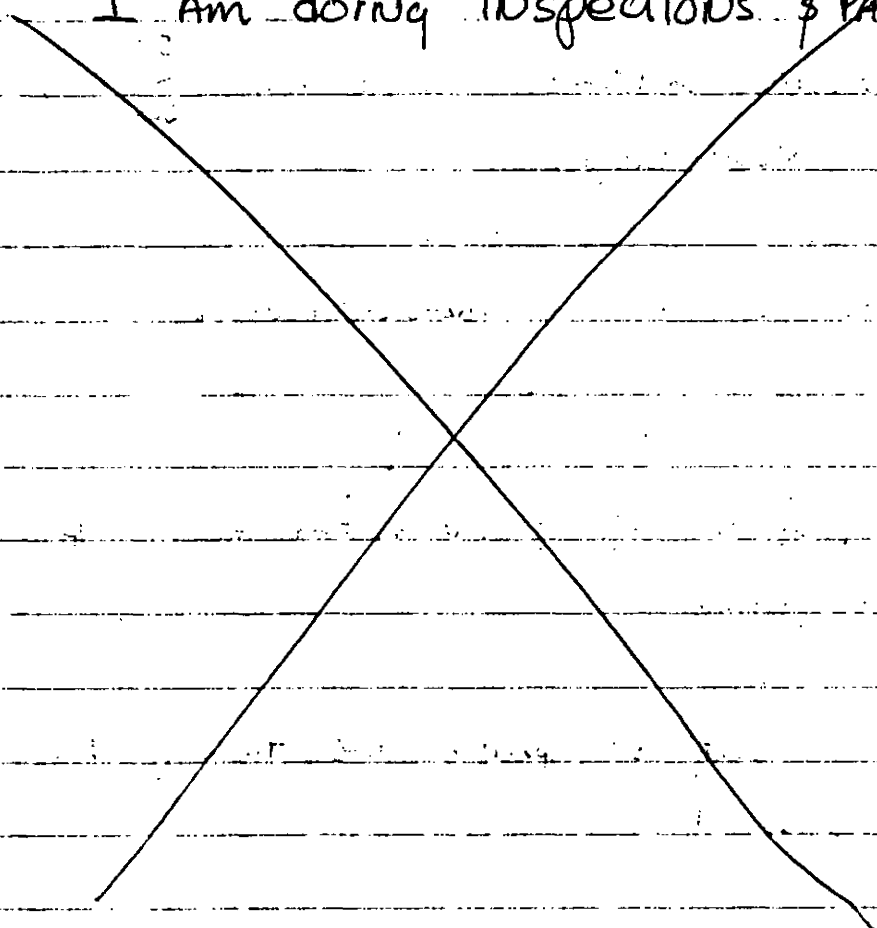

JOHN W. HOFF SUPER 2759

ARCO wellsville ~ SLA Backfill
H+S Book #1

9

9-22-91 Temp 43° 7:00 am

No work on site
I am doing inspections & Paperwork.



4:46 pm Left site. Temp 59°

Gay I. Hester

PROJECT ENTRY PERMIT

DATE: 9-22-91 TIME IN: 7:00 am TIME OUT: 4:45 pm

NAME: GARY C. Stiles

COMPANY: EBASCO

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-22-91 TIME IN: 10:00 am TIME OUT: 3:00 pm

NAME: Gene Sosis

COMPANY: EBASCO

BADGE No: E-4

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-22-91 TIME IN: 10:00 AM TIME OUT: 4:45 pm

NAME: John Huff

COMPANY: OHM

BADGE No: OH-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-22-91 TIME IN: 12:30 pm TIME OUT: 4:45 pm

NAME: John Accomando

COMPANY: OHM

BADGE No: OH-2

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-22-91 TIME IN: 12:30 pm TIME OUT: 4:45 pm

NAME: Mike DeClerico

COMPANY: OHM

BADGE No: OH-3

Must Be Turned Into Security Within First 2hrs Of Next Work Day

ARCO WELLSVILLE
Construction Management
Daily Report
September 21, 1991

Arrived at 6:25 Am. Temp. 51°

Inspected clay and common fill areas. looks good.

OHM completed clay placement and common fill, continue to fine grade area, they are using the D-4 Dozer and the operator isn't able to run it for fine grading, they have another operator coming Monday who is supposed to be a blue-topper.

Trucks stopped common fill haul at 12:00 noon.

OHM stopped work @ 6:00pm ~ I left @ 7:15pm.

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 9-21-91 DAY: Saturday HRS. WRK. 12 REPORT NO. 91-006

WEATHER INFORMATION:

TEMPERATURE: High 63 Low 51 WIND: Mph. 5 to 10 Dir. So
PRECIPITATION: 0 HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 0
H&SO 0 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 0
OTHERS 0 SUB. Doug Myers
" 0 SUPV. EMPS 2
USCOE/EPA 0 SUB. 0
" 0 SUPV. EMPS
VISITORS 0
0
0
0

MANUAL OHM GEN. LABOR 2 EQUIP. OPER. 3

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1 - 12</u>			
Dozer	<u>1 - 12</u>			
Back Hoe		<u>1 - 12</u>		
Back Hoe		<u>1 - 12</u>		
Compactor	<u>1 - 12</u>			
Compactor				
Dump Trk.	<u>6 - 12</u>			
Dump Trk.				
Others				
"				
"				

MEETINGS:

PLAN OF DAY

- Five Grade SLA clay Area.
- Set Blue Top stakes.
- Place Common fill.

SAFETY

See Attached safety Log

SCHEDULED

None

UN-SCHEDULED

None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
SLA BACKFILL:

- Five Graded clay fill.
- Place Common fill.

NORTH DIKE EXTENSION:

No Work

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE		
GEOWASTE MATERIAL	CY	
CONTAMINATED WASTE	CY	
CLEAN	CY	
TOE TRENCH	CY	
KEY TRENCH	CY	
RIPRAP	TON	

TYPE UNIT EST. QTY.

AGGREGATES	CY	
TOP SOIL		
GEOTEXTILE FAB	SY	
BEDDING MATERIAL	TON	
GEOTEXTILE FAB	SY	
CLAYMAX	SY	
GEOMEMBRANE	SY	
CLAY	CY	360
COMMON FILL	CY	150
RIPRAP	TON	
MISC.		

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TOP SOIL	CY	
AGGREGATES	CY	
CLAYMAX	CY	
CLAY		
COMMON FILL		
RIPRAP		

TYPE UNIT EST. QTY.

GEOTEXTILE FAB	SY	
BEDDING MATERIAL	CY	
GEOMEMBRANE	SY	
EQUIP. FUEL & LUBE	GAL	
MISC.		
MISC.		
MISC.		

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

NONE

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS			
SANITARY WASTE	GALS			
DEBRI	TON			
USED OIL/LUBE	GAL			
MISC.				

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
<u>NONE</u>	YES <u>NA</u> NO	<u>NA</u>	<u>N-A</u>
	YES NO		
	YES NO		

REPORT NUMBERS

Attached report required by Contract document						
	"	"	"	"	"	"
	"	"	"	"	"	"
	"	"	"	"	"	"
	"	"	"	"	"	"

COMMENTS See Empire Soils Report.

None

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	14	142
"D" MOD		
"D"		
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS: none

PERSONNEL: EMPS. IN: _____ EMPS. OUT: _____
EQUIPMENT: IN: _____ OUT: _____
VENDERS EQUIPMENT: IN: _____ OUT: _____

ACCIDENTS/BREECHES OF PROCEDURES: *None*

NO.	TIME	LOCATION	EMP.NO./EQUIP.NO.	INJURY/DAMAGE	RESPONSE

1 _____
2 _____

ACCIDENT/BREECHES REPORT: _____

SECURITY: See gate log.

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-21-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
None on site	John Palmer Amy Palmer	High 51,Low 63 Partly cloudy with lite breez
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating S=Standby
Gary L. Stiles C.M.1	OHM John Hoff 1	
Mike Hsieh Res.Engr.1	Equip.oper 3	
Gene Sosis C&S 1	Baker-equip op 2	1-TD-4 Dozer O
	Truck drivers 6	1-TD-5 Dozer O
	On-site SecGuard 1	1-Rayco 799 O
	Dough Myers-survey 2	Compacter
	Empire Soils-Geotech0	6-10Whl Dumps O
		1-Water wagon S
Health and Safety Issues:		2- End Loaders O
		1-580 Backhoe S
* None		1-225 Backhoe S

Quality Control Issues:

* None

Problems and Concerns:

* None

Resolution of Previous Problems/Concerns:

* None

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 9-21-91

Sampling Activities Today	Quantity	Contractor	% Completed
None			

Major Activities Today (Non-Sampling)

* Placed compacted clay	830 CY	OHM	97%
	(Uncompacted)		
* Placed common fill	1012 CY	OHM	67%

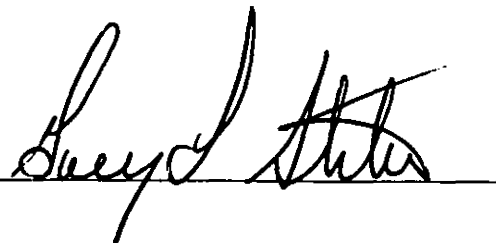
Major Activities Planned (Next 5 working days)

* Place compacted clay	200 CY	OHM	3%
* Placed common fill	1600 CY	OHM	33%
* Place Top Soil	1500 CY	OHM	100%
* Strip vegetation N.D.E.	200 CY	OHM	100%

Summary Report:

* SLA Backfill is to sub-grade over 60% of area.

Site Manager



Date

9-23-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 21, 1991
SATURDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1900 HRS
P' CLOUDY, COOL

OHM PERSONNEL:

1. J. HOFF	SUPER
2. J. ACCOMANDO	FOREMAN
3. J. CHAIRMONTE	EQPT OPER
4. A. LIVINGSTON	REC TEC
5. WM. HUNT	REC TEC

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
225 EXCAV	4926
580 CASE TLB	365
2" PUMP & HOSE	4508
D-4 DOZER	3720

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
S/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS:

BAKERS OF JERICO HILL
ALFRED, NY

SUPPLY & IMPORT FILL

DC MYERS, PLS
ARCADE, NY

LAYOUT SUBGRADES OF SLA

MEETINGS:

0700 SAFETY MEETING: FILL/COMPACTION OPS, CLAY & COMMON FILL
SUBGRADES, COMPACTOR OPS, COMPACTION REQUIREMENTS, GROUND
GUIDE RESPONSIBILITIES.

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. SUPPLY, IMPORT, PLACE & COMPACT FILL IN SLA.

MATERIAL RECEIVED:

1. CLAY FILL	360 CY	EST @ 10CY/TRUCK/COMPACTED
2. COMMON FILL	150 CY	EST @ 10CY/TRUCK/COMPACTED

SAMPLES TAKEN: NONE

TAKEN BY: N/A

LEVEL OF PROTECTION:

DECON:

D

NONE REQUIRED

NORTH DIKE EXTENSION:

1. BEGIN MOBE OF ADDITIONAL PERSONNEL REQUIRED.

MATERIAL RECIEVED: NONE

SAMPLES TAKEN: NONE

TAKEN BY: N/A

LEVEL OF PROTECTION: N/A

DECON: N/A

TECHNICAL CONCERNS & PROBLEMS

1. WORKING LAND SIDE SLOPE OF DIKE EXT. DIFFICULTIES.

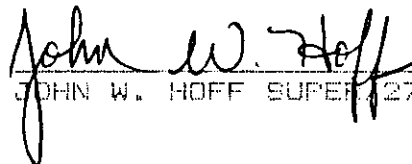
COMMENTS:

1. NONE

ACCIDENTS OR BREECHES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:


JOHN W. HOFF SUPER 2759

9/21/91

(Sat)

Sunny

43° AM

- Arrive at site 7:00 am
- Received 8-hr Health and Safety Refresher training
- Survey crew set elevation marking on stakes at each grid point according to the calculated elevations based on Dwg AR-3.
- O&M continued backfilling and compaction to bring the fill to the marks
- Left the site at 5:30 pm

⑧

ARCO Wellsville ~ SLA Backfill
H & S Book # 1

9-21-91 Temp 52° 6:10 AM

8:00am Check for Dust.

17 min TWA .00 mg/m³

Five grading sub-grade surface.

12:15pm Check Area for Dust

15 min TWA .00 mg/m³

Activities Five grading sub-grade surface.

4:12pm Check Area for Dust

16 min TWA .02 mg/m³

Activities Five grade common fill area,
Told John Huff OTR that he need to
dampen the entrance road where the
trucks were running. he had his
labors, wet it down.

7:45pm Left Job site Temp 61°

Harry J. Miller

PROJECT ENTRY PERMIT

DATE: 9-21-91 TIME IN: 6:15 am TIME OUT: 7:30pm

NAME: Gary L. Stiles

COMPANY: EBASCO

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-21-91 TIME IN: 7:05 TIME OUT: 6:35pm

NAME: Mike Hsieh

COMPANY: EBASCO

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

Low TERT? -

SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM

Date: 9/2/191

No./Name	Time In/Out		Time In/Out		Remarks
EBASCO					
GARY Stiles	6:15	12:04	12:21		
Engene Sosis	7:00	4:47			
Mike Hsieh	7:05	12:08	12:54	4:58	
OHM					
John Hoff	6:30	4:58			
John Clairmont	6:30	4:58			
Algie Livingston	6:45	11:45	12:24	1:59	
Bill Hunt	6:45	1:59			
On-Site H+S					
Jon Palmer	6:50	5:20			
Amy Palmer	7:58	12:20	12:39	5:20	
Jerry Palmer	7:58	11:29	12:45	5:00	
VISITORS					
DOUGTINGUE	6:45	11:03			MEYERS
HANDY CROOKS	6:45	11:03			MEYERS
Charlie Baker	8:39	9:10	10:29	10:54	11:16/11:21 11:28/11:38
Jim Fisher	11:04	12:17			BH
John Perkins	11:04	12:17	12:35	12:49	BH
John Afferton	3:21	4:58			BH
Mark Piscitelli	12:34	1:58			BH
Louis Pokis	3:24	3:22			limo driver
Charlie Baker (cont)	12:55	1:02	1:19	1:23	

Date: 9/21/91

No./Name		Time In/Out	Time In/Out	Remarks
John Perkins	8:07/8:13	8:30/8:35	8:50/8:52	9:09/9:13*
WOOD SIDE BAY RD	9:49/9:52	10:08/10:12	10:28/10:54	9:28/9:34
K				
Dale Baker	8:06/8:11 *	9:55/9:58	10:14/10:17	10:32/10:45
Dodge	11:28/11:31	11:46/11:50	12:08/12:12	12:29/12:33
	1:09/1:12	1:27/1:40		12:49/12:54
Russ Layton	8:12/8:20	8:37/8:39	8:55/8:59	9:17/9:26*
< REO	9:58/10:00	10:16/10:21	10:39/10:49	9:38/9:40
	11:44/11:47	12:05/12:08	12:25/12:28	11:04/11:08
	1:53/1:40			11:29/11:27
				12:44/12:48
				1:06/1:08
Roy Conforti	8:15/8:21	8:38/8:41	8:57/9:06	9:20/9:26*
David Van Skiver	10:01/10:04	10:31/10:34	10:42/10:47	9:42/9:47
METAL SIDE BAY RD	11:45/11:49	12:06/12:10	12:27/12:30	11:04/11:10
	1:28/1:40			11:26/11:30
				12:46/12:50
				1:07/1:10
SZ Total				
*denotes end of common fill				

ARCO WELLSVILLE
Construction Management
- Daily Report
September 20, 1991

Arrived At 6:20 AM 44° ~ Some frost on high spots

Inspected fill area clay is within a 1/2 foot of grade and need blue tops to finish, common fill area needed some humps knocked down and vegetation cleared off slope of tree line. Approved start of common fill at clay interface line.

Went to clay pit to witness source of common fill material, material is the tailings from processed clay development, and was approved for use at site last year.

Made arrangement with On-Site for 8 hr refresher training. Call Joe Sbarra and informed him.

Told Joe Sbarra that we are scheduled to start NDE on Monday 23rd and will need him on-site during stripping.

John H said that the surveyors had called and they want be hear today, He is borrowing A level & Rod from Baker, will set some blue tops so he can start fine grading.

Tom G. called.

- Joe S. had told him that I had made arrangements for 8 hr. training and wouldn't need any support, I confirmed that.
- Approved payments for,
 - Culligan Water - Drinking Water.
 - Baker - Repair of water lines.
 - Proceed with purchase of 8'x26' trailer from Ruff - Rocco will handle.
 - OHM's retainage should be released, Vinu is to verify qty's.

Dave C-ARCO - returned my call I told him what OHM's cost for early mobilization of NDE work would be, He isn't agreeable to this at all, I told him we can wait until SLA is complete before starting, 1 to 2 more weeks, but I don't think that would be wise, the savings for CM and support will off-set his cost if we only gain 1 week on schedule, He doesn't see it that way, I suggest he talk with Mark K. I told him that if I go back on him the CM.

then, I am shopping a price and he can legally go for T&M if he so desires.

Dave will talk with him, I told him that he needs for Mark K to call him instead of him calling Mark K. I will talk with Mark K.

Called Mark K explained Daves concerns with EBASCO, and suggested he call Dave and maybe they can agree, I will work with what they agree to. He said he would, but is a little upset since he has already mobilized equipment and personnel for Monday 23rd start and now some-one wants to change the rules, I asked him to talk with Dave C, He said he would think it over, may just wait until SLA is complete before starting, let ARCO pay whatever it cost at that time, I reminded him of future work at this site, He Agreed to call me back in a little while and let me know what he has decided.

Inspected common fill placement, is going down good, John H is setting some blue tops on clay fill area.

Dave C called, him and Mark K had Agreed on

A move/Demove cost. I asked for a definition of the Task A & B, he wasn't to sure but said that it is defined in the change order.

John H and I went to North Dike Area and walked Access and Temp haul road, the location shown on the drawing, will require relocation of Drum Yard fence and would have to be removed before perm. site drainage can be installed, plus excessive backfill would be required for ramps over wing dike and would block the flow to 28" ϕ CMP. I agreed to cutting the north fence of Drum yard and opening so. fence gate, John will resurface area haul roads with and equal amount of material submitted in bid, we would also open west gate of Drum yard and he will surface from Mepps furniture to road through drum yard.

Mark K called, he and Dave agreed on a move/Demove cost, he isn't happy and will be looking for some relief, I told him that I work by the book and he should know that by now, he said he wasn't blaming me but it is sure hard to work with ARCO, don't know what they want. but want try anything.

OHM stopped at 7:00pm ~ I left at 8:10pm.

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 9-20-91 DAY: Friday HRS. WRK. 12 REPORT NO. 91-105

WEATHER INFORMATION:

TEMPERATURE: High 54 Low 44 WIND: Mph. 5 to 10 Dir. So.
PRECIPITATION: 0 HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 0
H&SO 0 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 0
OTHERS 0 SUB. Empire Soils
" 0 SUPV. EMPS
USCOE/EPA 1 SUB. EMPS
" 0 SUPV. EMPS
VISITORS 0
0
0
0
0
0
0
0
0
MANUAL OHM GEN. LABOR 2 EQUIP. OPER. 3

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1 - 12</u>			
Dozer	<u>1 - 12</u>			
Back Hoe	<u>1 -</u>	<u>12</u>		
Back Hoe	<u>1 -</u>	<u>12</u>		
Compactor				
Compactor	<u>1 - 12</u>			
Dump Trk.				
Dump Trk.	<u>8 - 12</u>			
Others				
"				
"				

MEETINGS:

PLAN OF DAY

• Place Clay at SLA AREA.

• Place Common fill @ SLA AREA

SAFETY

See Attached Safety log

SCHEDULED

NONE

UN-SCHEDULED

NONE

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL:

• Placed & Compacted Clay @ SLA

• Placed Common fill @ SLA

NORTH DIKE EXTENSION:

No Work

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE		
GEOWASTE MATERIAL	CY	~~_____~~
CONTAMINATED WASTE	CY	~~_____~~
CLEAN	CY	~~_____~~
TOE TRENCH	CY	~~_____~~
KEY TRENCH	CY	~~_____~~
RIPRAP	TON	~~_____~~

TYPE UNIT EST. QTY.

AGGREGATES	CY	~~_____~~
TOP SOIL		~~_____~~
GEOTEXTILE FAB	SY	~~_____~~
BEDDING MATERIAL	TON	~~_____~~
GEOTEXTILE FAB	SY	~~_____~~
CLAYMAX	SY	~~_____~~
GEOMEMBRANE	SY	~~_____~~
CLAY	CY	<u>250</u>
COMMON FILL	CY	<u>1150</u>
RIPRAP	TON	~~_____~~
MISC.		~~_____~~

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TOP SOIL	CY	~~_____~~
AGGREGATES	CY	~~_____~~
CLAYMAX	CY	~~_____~~
CLAY		~~_____~~
COMMON FILL		~~_____~~
RIPRAP		~~_____~~

TYPE UNIT EST. QTY.

GEOTEXTILE FAB	SY	~~_____~~
BEDDING MATERIAL	CY	~~_____~~
GEOMEMBRANE	SY	~~_____~~
EQUIP. FUEL & LUBE	GAL	~~_____~~
MISC.		~~_____~~
MISC.		~~_____~~
MISC.		~~_____~~

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

See Empire Soils compaction test report.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	<u>0</u>	<u>NO</u>	<u>G. Shles</u>
SANITARY WASTE	GALS	<u>30</u>	<u>NO</u>	<u>G. Shles</u>
DEBRI	TON	~~_____~~	~~_____~~	~~_____~~
USED OIL/LUBE	GAL	~~_____~~	~~_____~~	~~_____~~
MISC.		~~_____~~	~~_____~~	~~_____~~

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
<u>Cat 225 hoe</u>	YES <u>X</u> NO _____	<u>Yes</u>	<u>G. Shles</u>
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____

REPORT NUMBERS

Attached report required by Contract document					
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"

COMMENTS Empire pulled sand cone test today
See Attached report

Nowe

ACTIVITY PROTECTION LEVELS: *Clean*

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	12	106
"D" MOD		
"D"		
"C"		
"B"		
OTHER		

PERSONNEL: EMPS. IN: _____ EMPS. OUT: _____
EQUIPMENT: IN: _____ OUT: _____
VENDERS EQUIPMENT: IN: _____ OUT: _____

NO.	TIME	LOCATION	EMP.NO./EQUIP.NO.	INJURY/DAMAGE	RESPONSE
1	10:00	1000	1000	1000	1000
2	10:00	1000	1000	1000	1000
3	10:00	1000	1000	1000	1000
4	10:00	1000	1000	1000	1000
5	10:00	1000	1000	1000	1000
6	10:00	1000	1000	1000	1000
7	10:00	1000	1000	1000	1000
8	10:00	1000	1000	1000	1000
9	10:00	1000	1000	1000	1000
10	10:00	1000	1000	1000	1000
11	10:00	1000	1000	1000	1000
12	10:00	1000	1000	1000	1000
13	10:00	1000	1000	1000	1000
14	10:00	1000	1000	1000	1000
15	10:00	1000	1000	1000	1000
16	10:00	1000	1000	1000	1000
17	10:00	1000	1000	1000	1000
18	10:00	1000	1000	1000	1000
19	10:00	1000	1000	1000	1000
20	10:00	1000	1000	1000	1000
21	10:00	1000	1000	1000	1000
22	10:00	1000	1000	1000	1000
23	10:00	1000	1000	1000	1000
24	10:00	1000	1000	1000	1000
25	10:00	1000	1000	1000	1000
26	10:00	1000	1000	1000	1000
27	10:00	1000	1000	1000	1000
28	10:00	1000	1000	1000	1000
29	10:00	1000	1000	1000	1000
30	10:00	1000	1000	1000	1000
31	10:00	1000	1000	1000	1000
32	10:00	1000	1000	1000	1000
33	10:00	1000	1000	1000	1000
34	10:00	1000	1000	1000	1000
35	10:00	1000	1000	1000	1000
36	10:00	1000	1000	1000	1000
37	10:00	1000	1000	1000	1000
38	10:00	1000	1000	1000	1000
39	10:00	1000	1000	1000	1000
40	10:00	1000	1000	1000	1000
41	10:00	1000	1000	1000	1000
42	10:00	1000	1000	1000	1000
43	10:00	1000	1000	1000	1000
44	10:00	1000	1000	1000	1000
45	10:00	1000	1000	1000	1000
46	10:00	1000	1000	1000	1000
47	10:00	1000	1000	1000	1000
48	10:00	1000	1000	1000	1000
49	10:00	1000	1000	1000	1000
50	10:00	1000	1000	1000	1000
51	10:00	1000	1000	1000	1000
52	10:00	1000	1000	1000	1000
53	10:00	1000	1000	1000	1000
54	10:00	1000	1000	1000	1000
55	10:00	1000	1000	1000	1000
56	10:00	1000	1000	1000	1000
57	10:00	1000	1000	1000	1000
58	10:00	1000	1000	1000	1000
59	10:00	1000	1000	1000	1000
60	10:00	1000	1000	1000	1000
61	10:00	1000	1000	1000	1000

1 _____
2 _____

ACCIDENT/BREECHES REPORT: None

SECURITY: See Attached Gate log

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-20-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
Mike Rywnik USCOE	None	High 54, Low 44 Partly cloudy.
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating S=Standby
Gary L. Stiles C.M.1	OHM John Hoff 1	
Mike Hsieh Res.Engr.1	Equip.oper 4	
Gene Sosis C&S 1	Baker-equip op 2	1-TD-5 Dozer O
	Truck drivers 8	1-Rayco 799 O/S
	On-site SecGuard 1	Compacter O
	Dough Myers'-survey 0	8-10Whl Dumps O
	Empire Soils-Geotech1	1-Water Wagon S
		2-End Loaders O
		1-580 Backhoe S
		1-225 Backhoe S

Health and Safety Issues:

- * Air monitoring for dust (6 runs)

Quality Control Issues:

- * Empire Soils performed compaction test (3) all were acceptable.
- * Empire Soils took a sand cone of clay material

Problems and Concerns:

- * Soft soil in the common fill area is too soft to place fill on.

Resolution of Previous Problems/Concerns:

- * Pushed wet soil into area of drainage swale and spread, will have to work on as material dries.

Comments: None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 9-20-91

Sampling Activities Today	Quantity	Contractor	% Completed
None	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

Major Activities Today (Non-Sampling)

* Placed compacted clay	48 loads@ 10CY=480CY	OHM	87%
* Placed common fill	143 loads@ 14CY=2002CY	OHM	41%

Major Activities Planned (Next 5 working days)

* Place compacted clay - SLA	1030 CY	OHM	13%
* Place common fill - SLA	2898 CY	OHM	59%
* Place Topsoil - SLA	1500 CY	OHM	100%
* Strip vegetation - NDE	100 CY	OHM	100%

Summary Report:

- * Place clay fill and fine grade for T/S placement.
- * Place common fill north of clay.

Site Manager

Gary J. Hester

Date

9-20-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 20, 1991
FRIDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1900 HRS
P' CLOUDY, COOL

OHM PERSONNEL:

1. J. HOFF	SUPER
2. J. CHAIRMONT	EQPT OPER
3. A. LIVINGSTON	REC TEC
4. WM. HUNT	REC TEC
5. L. HOPPOCK	TRUCK DRIVER

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
OTR & LOW BED TRAILER	
580 CASE TLB	365
2" PUMP & HOSE	4508
D-4 DOZER	3720
225 EXCAV	4926

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
S/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS:

BAKERS OF JERHICO HILL
ALFRED, NY

SUPPLY & IMPORT CLAY

EMPIRE SOILS INVESTIGATIONS
ROCHESTER, NY

COMPACTION TESTING, ETC

MEETINGS:

0700 SAFETY MEETING: FILL/COMPACTION OPS, CLAY & COMMON FILL
REQUIREMENTS, COMPACTOR OPS & MAINT.

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. SUPPLY, IMPORT, PLACE & COMPACT CLAY & COMMON FILL IN
SLA.

MATERIAL RECEIVED:

1. CLAY FILL	350 CY	EST @ 10CY/TRUCK/COMPACTED
2. COMMON FILL	1150 CY	EST @ 10CY/TRUCK/COMPACTED

SAMPLES TAKEN: COMPACTION

TAKEN BY: EMPIRE SOIL INVESTIGATIONS

LEVEL OF PROTECTION:

D

DECON:

NONE REQUIRED

NORTH DIKE EXTENSION:

1. CONT MOBE OF EQUIPMENT.

MATERIAL RECIEVED: NONE

SAMPLES TAKEN: NONE

TAKEN BY: N/A

LEVEL OF PROTECTION: N/A

DECON: N/A

TECHNICAL CONCERNS & PROBLEMS

1. WORKING LAND SIDE SLOPE OF DIKE EXT. DIFFICULTIES.

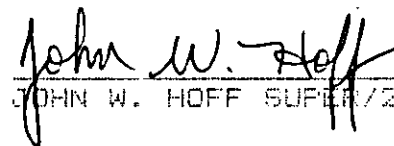
COMMENTS:

1. NONE

ACCIDENTS OR BREECHES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:


JOHN W. HOFF SUPER/2759

ARCO Wellsville ~ SLA Backfill

H & S Log Book #1

⑦

9-20-91 Temp. Low 44° - 6:20am

9:45am Checked Area for dust:

17 min. TWA dust - .00 mg/m^3

Placing clay and common fill material
at SLA Area

2:50pm Checked Area for dust:

15 min TWA dust - .00 mg/m^3

Placing common fill material at SLA Area

6:10pm Checked Area for dust:

15 min TWA dust - .00 mg/m^3

Fine grading of common fill at SLA Area.

7:45pm Left Job site. Temp 54°

Larry J Miller

9/20/91

(Fri)

Foggy AM
45°F
turns
cloudy

- ° Arrive at site 7:10 am.
- ° Verified that the quantity of topsoil estimated to be about 1500 cy is for a 6" layer for the entire fill area including slopes.
- ° Backfilling and compaction has reached the northern end of SLA. More filling is needed in the western end to provide a slight slope towards the east. Eastern end of SLA has reached the designated top of fill.
- ° CHM started filling and compaction of common fill area.
- ° The common fill material being used is the screenings of the dike fill material that has been used in SLA, and contains fairly large percentage of coarse materials larger than $3/4"$. Proctor test is not appropriate for this type of fill material. A FCR will be written to waive the Proctor and in-place density test requirements. By observation, good compaction can be obtained by 4 passes by the compactor.
- ° Project records show that complete geotechnical and chemical analyses as required by the QA Proj Plan have been performed for the Dike Fill material from "Babbit Pit", TP-1 through TP-4. (See Canonie's letter to T. Granger on the lab results dated August 23, 1990). Since both the dike fill material and

9/20/91 (Cont'd.)

(Fri)

common fill being used are from Babbit Pit, no new chemical tests are necessary.

- Gary Stiles staked out grid points at 50' interval in preparation for topping.
- The 1505 and 1506 contour lines near the northwest section of SLA are revised to provide a flatter slope towards the foot of contaminated soil storage pile in the north. Calculated the top of clay elevation for the grid points for finishing operation.
- Left the site at 7:00 pm.

PROJECT ENTRY PERMIT

DATE: 9-20-91 TIME IN: 7:00 AM TIME OUT: 7:45 PM

NAME: GENE SOSIS

COMPANY: EBASCO

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-20-91 TIME IN: 6:15 PM TIME OUT: 8:15 pm

NAME: GARY L Stiles

COMPANY: EBASCO

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-20-91 TIME IN: 7:15 AM TIME OUT: 7:00 pm

NAME: Mike Hsieh

COMPANY: EBASCO

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

Date: 9/20/91

Date: 9/20/91

1

SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM

Date: 9/20/91

No./Name	Time In/Out		Time In/Out		Remarks
Jon Perkins T-9	6:55/7:08	7:30/7:34	7:52/7:55	8:11/8:13	8:29/8:32
	8:46/8:49	9:03/9:06	9:21/9:28	9:43/9:48	10:05/10:08
	10:24/10:27	10:43/10:46	11:02/11:04	11:21/11:25	11:40/11:43
	11:58/12:08	12:24/12:30	12:48/12:52	1:07/1:11	1:27/1:31
	1:48/1:52	2:09/2:12	2:30/2:35	2:57/2:59	3:16/3:19
	3:33/3:35	3:52/3:55	4:10/4:13	4:28/4:31	4:47/4:50
	5:10/5:12	5:24/5:29	5:46/5:49		
Dale Baker Judge	7:03/7:09	7:34/7:38	7:57/8:01	8:17/8:22	8:38/8:42
	8:57/9:02	9:13/9:25	9:41/9:46	10:01/10:06	10:23/10:26
	10:42/10:45	11:00/11:04	11:21/11:25	11:41/11:44	12:00/12:07
	12:27/12:32	12:50/12:54	1:11/1:14	1:28/1:32	1:50/1:54
	2:10/2:14	2:32/2:39	2:52/2:59	3:17/3:21	3:36/3:39
	3:55/3:59	4:17/4:20	4:36/4:41	4:58/5:13	5:29/5:40
	11:33/11:35				
Ray Cartwright T-8	7:12/7:16	7:35/7:38	7:57/8:00	8:17/8:20	8:37/8:40
	8:56/9:00	10:01/10:05	10:24/10:27	10:44/10:48	11:05/11:09
	11:26/11:30	12:20/12:27	12:44/12:48	1:04/1:09	1:25/1:29
	1:47/1:50	2:08/2:11	2:30/2:33	2:54/2:58	3:15/3:19
	3:34/3:39	3:55/3:58	4:15/4:19	4:35/4:39	4:57/5:00
	5:17/5:22	5:48/5:53			
Russ Layton OREO	7:15/7:19	7:38/7:41	7:59/8:02	8:20/8:23	8:39/8:42
	8:59/9:02	9:13/9:23	9:40/9:44	9:59/10:05	10:22/10:25
	10:40/10:44	11:00/11:03	11:21/11:24	11:39/11:42	11:58/12:07
	12:23/12:28	12:47/12:40	1:05/1:09	1:26/1:30	1:47/1:51
	2:09/2:11	2:27/2:29	2:47/2:50	3:07/3:10	3:26/3:30
	3:47/3:51	4:07/4:10	4:27/4:29	4:46/4:49	5:10/5:12
	5:27/5:40				

Date: 9/20/91

Date: 9/20/91

~~189 Total 191~~

FIELD IN-PLACE DENSITY TEST REPORT



- ☐ 5 KNABNER ROAD, P.O. BOX 2199, BALLSTON SPA, NY 12020 518/899-7491
- ☐ S-5167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716/649-8110
- ☐ 105 CORONA AVENUE, GROTON, NY 13073 607/898-5881
- ☐ 140 TELEGRAPH ROAD, P.O. BOX 297, MIDDLEPORT, NY 14105 716/735-3502
- ☐ 4287 WITMER ROAD, B.P.O. BOX 188, NIAGARA FALLS, NY 14305-0188 716/297-5981
- ☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14467 716/359-1960
- ☐ 35 NATIONAL ROAD, EDISON, NJ 08817 908/287-2224
- ☐ MORGANTOWN BUS. PARK, P.O. BOX 189, MORGANTOWN, PA 19543 215/286-6657

Project: SINCLAIR REFINERY Report No: _____

Client: ERASEO OHM Date: 9/20/91

Contractor: OHM Job No.: RT-91-

Test No.	Date of Test	Depth or Elevation	In-place Density (pcf)	In-place Moisture (%)	% Compaction	Proctor Code	Location and Remarks
1	9/20/91	F.G.	132.0	6.4	100+		(NUCLEAR METHOD) STA. 25+65, 25' WEST OF DIKE E
2	"	F.G.	130.4	8.2	100+		(SAND CONE METHOD) STA. 25+65, 25' WEST OF DIKE E
3	"	F.G.	131.1	7.7	100+		(NUCLEAR METHOD) STA. 23+80, 80' WEST OF DIKE E

Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source
	126.1	7.6	

NOTE: CLIENT WAS INFORMED OF LOW MOISTURE CONTENT OF TEST #1

F.G. = FINISH SUBGRADE

Respectfully submitted,

Remarks: A CLIENT'S REPRESENTATIVE, GARY TILES, WAS INFORMED OF ALL TEST RESULTS

EMPIRE SOILS INVESTIGATIONS, INC.

Technician Time: 7:30/9:30 2:00/2:00

Technician: JAMES KING

SUBSURFACE EXPLORATION ■ CONSTRUCTION QUALITY CONTROL ■ ENGINEERING SPECIALTY SERVICES

ARCO WELLSVILLE
Construction Management
Daily Report
September 19, 1991

Arrived at 6:40am ~ 51° - Start drizzling around 1:00 am and has continued off-on through the nite.

Inspected fill surface it has about 1/2" of wet material but no ponded water, Instructed John H-OHM to skim surface and work the 1st 4" with the dozer tracks and then compact with roller, before he starts placing new clay.

Went to Clay Pit, Access roads are wet and Baker was on them with the blade, Clay pile is wet on the outside, but he was removing 6" to 8" of the wet material, the uncovered material is in good shape, approved load-out of this material.

Inspected fill area at 8:10am, Approved for clay placement.

First clay truck arrived at 8:20am.

Received NDE price proposal from Mark K-OHM,

He is proposing a high mobe/Demobe cast, I called him told him he was to high, I want even submit it to ARCO, he will take a look at it, and call me back.

Trying to locate key for pipe gate a North Access road, I have talked with.

- Mapps Furniture.
- Charlie Joyce
- Jim Hennessey
- Campus Security
- Walter Babbit
- Charlie Baker
- Police Department.
- Butler Larkin.

No one knows who put lock on gate, so will cut chain and put on new lock that we can use.

Inspected fill activities, OHM pushed the wet material into the low area by SLA waste pile, I told John that should spread this material out over this area so it will dry.

Wind has started to blow, fill area is drying fast, told John H he needs to have Baker to start blending some of that wet with the drier material and he will need to water lift if this wind stays-up.

Tom G. Called.

- Gave him OHM's numbers for early start of NDE, He concerned that this is more than ARCO expects, I told him that Mark, K is looking for ways to lower.
- Jeff. R. has told Tom that I am due, my 8hr refresher before I can work NDE stripping. Tom is looking for some-one to send out for that phase.

Called Dave C-ARCO not in today ~ left call back.

Talked with John H about shortage of trucks, he has discussed this with Baker and he has 8 trucks scheduled for Fri.

OHM stopped at 7:00pm ~ I left at 8:15pm.

MEETINGS:

PLAN OF DAY

• Place & Compact clay @ SLA.

• Prep. & Proof Roll Common fill AREA.

SAFETY

See Attached safety log.

SCHEDULED

NONE

UN-SCHEDULED

NONE

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL:

• Placed & Compacted clay at SLA. 204
loads.

• Prepared & Proof Rolled Common fill AREA.

NORTH DIKE EXTENSION:

No work

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE			AGGREGATES	CY		
GEOWASTE MATERIAL	CY			TOP SOIL			
CONTAMINATED WASTE	CY			GEOTEXTILE FAB	SY		
CLEAN	CY			BEDDING MATERIAL	TON		
TOE TRENCH	CY			GEOTEXTILE FAB	SY		
KEY TRENCH	CY			CLAYMAX	SY		
RIPRAP	TON			GEOMEMBRANE	SY		
				CLAY	CY	2040	
				COMMON FILL	CY		
				RIPRAP	TON		
				MISC.			

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
TOP SOIL	CY			GEOTEXTILE FAB	SY		
AGGREGATES	CY			BEDDING MATERIAL	CY		
CLAYMAX	CY			GEOMEMBRANE	SY		
CLAY				EQUIP. FUEL & LUBE	GAL		
COMMON FILL				MISC.			
RIPRAP				MISC.			
				MISC.			

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

See Empire Soil test Report.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	600#		No	G. Stiles.
SANITARY WASTE	GALS				
DEBRI	TON				
USED OIL/LUBE	GAL				
MISC.					

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
Cat D-4 Dozer	YES <u>X</u> NO	<u>Yes</u>	<u>G. Stiles</u>
	YES <u>/</u> NO		
	YES <u>/</u> NO		

REPORT NUMBERS

Attached report required by Contract document						
~~_____~~	''	''	''	''	''	''
~~_____~~	''	''	''	''	''	''
~~_____~~	''	''	''	''	''	''
~~_____~~	''	''	''	''	''	''

COMMENTS see Empire soils compaction
test report

OHM was informed of the moisture % level of clay. He started watering the lift he was placing.

ACTIVITY PROTECTION LEVELS: *Clean*

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	11	90
"D" MOD		
"D"		
"C"		
"B"		
OTHER		

PERSONNEL: EMPS. IN: _____ EMPS. OUT: _____
EQUIPMENT: IN: _____ OUT: _____
VENDERS EQUIPMENT: IN: _____ OUT: _____

NO.	TIME	LOCATION	EMP.NO./EQUIP.NO.	INJURY/DAMAGE	RESPONSE
1	11:00	1000	1000	1000	1000
2	11:00	1000	1000	1000	1000
3	11:00	1000	1000	1000	1000
4	11:00	1000	1000	1000	1000
5	11:00	1000	1000	1000	1000
6	11:00	1000	1000	1000	1000
7	11:00	1000	1000	1000	1000
8	11:00	1000	1000	1000	1000
9	11:00	1000	1000	1000	1000
10	11:00	1000	1000	1000	1000
11	11:00	1000	1000	1000	1000
12	11:00	1000	1000	1000	1000
13	11:00	1000	1000	1000	1000
14	11:00	1000	1000	1000	1000
15	11:00	1000	1000	1000	1000
16	11:00	1000	1000	1000	1000
17	11:00	1000	1000	1000	1000
18	11:00	1000	1000	1000	1000
19	11:00	1000	1000	1000	1000
20	11:00	1000	1000	1000	1000
21	11:00	1000	1000	1000	1000
22	11:00	1000	1000	1000	1000
23	11:00	1000	1000	1000	1000
24	11:00	1000	1000	1000	1000
25	11:00	1000	1000	1000	1000
26	11:00	1000	1000	1000	1000
27	11:00	1000	1000	1000	1000
28	11:00	1000	1000	1000	1000
29	11:00	1000	1000	1000	1000
30	11:00	1000	1000	1000	1000
31	11:00	1000	1000	1000	1000
32	11:00	1000	1000	1000	1000
33	11:00	1000	1000	1000	1000
34	11:00	1000	1000	1000	1000
35	11:00	1000	1000	1000	1000
36	11:00	1000	1000	1000	1000
37	11:00	1000	1000	1000	1000
38	11:00	1000	1000	1000	1000
39	11:00	1000	1000	1000	1000
40	11:00	1000	1000	1000	1000
41	11:00	1000	1000	1000	1000
42	11:00	1000	1000	1000	1000
43	11:00	1000	1000	1000	1000
44	11:00	1000	1000	1000	1000
45	11:00	1000	1000	1000	1000
46	11:00	1000	1000	1000	1000
47	11:00	1000	1000	1000	1000
48	11:00	1000	1000	1000	1000
49	11:00	1000	1000	1000	1000
50	11:00	1000	1000	1000	1000
51	11:00	1000	1000	1000	1000
52	11:00	1000	1000	1000	1000
53	11:00	1000	1000	1000	1000
54	11:00	1000	1000	1000	1000
55	11:00	1000	1000	1000	1000
56	11:00	1000	1000	1000	1000
57	11:00	1000	1000	1000	1000
58	11:00	1000	1000	1000	1000
59	11:00	1000	1000	1000	1000
60	11:00	1000	1000	1000	1000
61	11:00	1000	1000	1000	1000

1 _____
2 _____

ACCIDENT/BREECHES REPORT: None

SECURITY: See attached gate log.

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-19-91

Contractor: Ebasco Constructors Inc.

Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
None on site	Walt Babbit Mike Williams-Phone Co.	High 62, Low 50 Light rain fell off & on during the early mornng Overcast remain -der of day.
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating S=Standby
Gary L. Stiles C.M.1	OHM John Hoff 1	
Mike Hsieh Res.Engr.1	Equip.oper 3	
Gene Sosis C&S 1	Baker-equip op 2	1-TD-5 Dozer 0
	Truck drivers 8	1-Rayco 799 0
	On-site SecGuard 1	Compacter
	Dough Myers-survey 0	4-10Whl Dumps 0
	Empire Soils-Geotech1	1-Water Wagon 0
		2-End Loaders 0

Health and Safety Issues:

* Air monitoring for dust this evening - no problem.

*

Quality Control Issues:

*

Problems and Concerns:

* Rain created wet material in low areas.

Resolution of Previous Problems/Concerns:

* Material was skimmed off and pushed to common
fill area.

Comments:

None

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 9-19-91

Sampling Activities Today	Quantity	Contractor	% Completed
None			

Major Activities Today (Non-Sampling)

* Placed compacted clay	3264 CY	OHM	See comment below
	(Uncompacted)		

Major Activities Planned (Next 5 working days)

* Place compacted clay	1250 $\pm$ CY	OHM	83%
* Place common fill	4900 CY	OHM	0%
* Place Topsoil	1500 CY	OHM	0%

Summary Report:

- * Placed compacted clay fill in SLA excavation area.
- * It is evident, that the 15% fluff factor that we were given for uncompacted clay was off by 16% $\pm$, We have received 589 loads and still are 6" to 10" from being upto grade or 1250 CY.

Site Manager

Darryl J. Stetson

Date

9-19-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 19, 1991
THURSDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1900 HRS
SHOWERS, COOL

OHM PERSONNEL:

1. J. HOFF	SUPER
2. J. CHAIRMONT	EQPT OPER
3. A. LIVINGSTON	REC TEC
4. WM. HUNT	REC TEC
5. R. ROSS	TRUCK DRIVER

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
OTR & LOW BED TRAILER	
550 CASE TLB	365
2" PUMP & HOSE	4508
D-4 DOZER	3720

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
S/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS:

BAKERS OF JERICO HILL
ALFRED, NY

SUPPLY & IMPORT CLAY

EMPIRE SOILS INVESTIGATIONS
ROCHESTER, NY

COMPACTION TESTING, ETC

MEETINGS:

0700 SAFETY MEETING: FILL/COMPACTION OPS, EQPT OPS &
MAINTENANCE, COMPACTOR OPS.

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. SUPPLY, IMPORT, PLACE & COMPACT CLAY FILL IN SLA.

MATERIAL RECEIVED:

1. CLAY FILL	2040 CY	EST @ 10CY/TRUCK/COMPACTED
2. COMMON FILL	0 CY	EST @ 10CY/TRUCK/COMPACTED

SAMPLES TAKEN: COMPACTION

TAKEN BY: EMPIRE SOIL INVESTIGATIONS

LEVEL OF PROTECTION:

D

DECON:

NONE REQUIRED

NORTH DIKE EXTENSION:

1. BEGIN MOBE OF EQUIPMENT.

MATERIAL RECEIVED: NONE

SAMPLES TAKEN: NONE

TAKEN BY: N/A

LEVEL OF PROTECTION: N/A

DECON: N/A

TECHNICAL CONCERNS & PROBLEMS

1. NONE

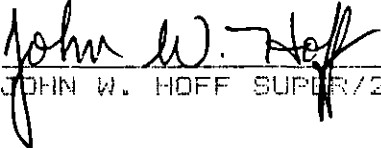
COMMENTS:

1. NONE

ACCIDENTS OR BREACHES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:


JOHN W. HOFF SUPER/2759

ARCO wellsville ~ SLA Backfill

H&S Log Book #1

9-19-91	Temp. Low 50° - 6:30 am	9-20
8:00 am	Rained off & on through-out the night (.70" inch), Dozer is skimming off wet material, may start fill placement if surface is dry enough.	9:45
11:50 am	Start Clay placement At 8:20 am, AREA is pretty damp.	2:50
3:20 pm	Checked AREA for dust: 15 min. TWA dust - .00 mg/m ³ Activities place clay in SLA excavation AREA.	6:10
4:40 pm	Checked AREA for dust: 15 min. TWA dust - .01 mg/m ³ Activity place clay in SLA excavation AREA. Pump water hole in common fill area and Doze out soft material	7:45 p
3:15 pm	Left job site • Temp. High 62°	Shay/H

Mike Hsieh ^①

9/19/91

(Thur)

Misty early
AM, then
turned cloudy

Sunny PM

- ° Arrive at site 7:05 am.
- ° OHM is instructed to blade the wet soil from the top of the compacted surface before new backfilling can start.
- ° OHM started pumping ponded water near the foot of the temporary storage pile towards the northern low land area in preparation for construction of a temporary drainage ditch that would prevent ponding in the future.
- ° Spec Section 02200, Paragraph 5.5 states that the common fill shall achieve 85% of the Proctor test and within $\pm 3\%$ of the optimum moisture. OHM indicated that the common fill they intend to use is of gravelly sand type for which a Proctor test is not appropriate. We would request a sieve analysis (No. 4 and $\frac{3}{4}$ in).
- ° Empire Testing conducted 3 in-place density and moisture content tests. All exceeded 95% of the Proctor, however, 2 moisture content readings were slightly below the limits. Since the range of moisture content of $\pm 2\%$ is applicable at the time of compaction and since the readings are taken up to 24 hours after compaction, slight deviation from the limits is considered acceptable.
- ° Empire Testing is informed of the Specification requirement (Section 02200-6) for a sand cone testing for

every 10 tests by the Nuclear Method.

- Telecon with V. Patel was initiated and the following items were discussed:

- 1) A new Proctor test was done for the dike fill material being used, although it is from the same source. A written report is forthcoming from Empire Soils.
- 2) Most In-place density readings are much higher than 95% Proctor but many moisture content readings are slightly below the lower limit. Since tests are made up to 24 hrs after compaction, slight moisture loss could result. It is agreed that the test results should be considered acceptable. No FCR required.
- 3) If gravelly sand is to be used for common fill and Proctor test is not appropriate an FCR should be filed.

V. Patel emphasized that the common fill borrow should have chemical testing and certification (Ref. pp 6-7 of QA Project Plan for Partial River Channelization).

- 4) Draw AR-7, "North End Dike Extension" is yet to be signed and sealed by Mario.

- Left site at 7:00 pm

PROJECT ENTRY PERMIT

DATE: 9-19-91 TIME IN: 6:45 pm TIME OUT: 8:15 pm

NAME: GARY L Stiles

COMPANY: EBASCO

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-18-91 TIME IN: 6:54 AM TIME OUT: 8:15 PM

NAME: GENE SOSIS

COMPANY: EBASCO

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-19-91 TIME IN: 6:45 am TIME OUT: 7:10 pm

NAME: John Hoff

COMPANY: OHM

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM

Date: 9/19/91

No./Name	Time In/Out		Time In/Out	Remarks
Gary Stiles	6:45	12:01	1:12 / *	EBASCO
Eugene Sosis	6:54	12:16	12:59 / *	EBASCO
Joe Shanna				EBASCO
Mike Hsieh	7:12	7:10		EBASCO
John Hoff	6:45	19:22	10:09 / 2:53 3:40 / 4:45 5:55 / *	OHM
John Clairmont	~~6:45~~	6:54		OHM
Algie Livingston	7:02	8:43	4:05 / 6:54	OHM
Bill Hunt	7:02	12:38	1:19 / 4:45 5:55 / 6:54	OHM
Jerry Palmer	6:52	7:06		On Site HS
Todd Baker	6:54	7:13	6:28 / 6:46	Bakers
Dan Pye	6:58	7:27	8:23 / 8:36	Bakers
Charlie Baker	6:58	19:24	1:21 / 2:33 4:46 / 4:53	
Jim King	9:03	10:32		Empire Soils
Joe Recie	11:00	11:01		Recie Dist.
Rick Recie	11:00	11:01		
Mike Williams	11:44	1:24		Mikes Telephone
Jim Fisher	1:20	2:35	3:19 / 3:35	
Walt Babbitt	3:32	3:50		
Robin Green	5:48	6:09		To see Jr. Green
Ken Ross	5:50	6:47		OHM Truck

Date: 9/19/91

Date: 9/19/91

No./Name		Time In/Out	Time In/Out	Remarks	
Dale Baker	9:00/9:03	9:19/9:22	9:36/9:39	9:53/9:55	10:10/10:12
DODGE	10:26/10:30	10:45/10:47	10:58/11:04	11:26/11:22	11:40/11:42
	12:00/12:02	12:18/12:20	12:35/12:38	12:53/12:55	1:10/1:13
	1:30/1:31	1:47/1:50	2:07/2:10	2:26/2:28	2:45/2:49
	3:04/3:07	3:21/3:23	3:40/3:43	4:00/4:03	4:20/4:23
	4:40/4:44	5:00/5:03	5:17/5:20	5:35/5:39	5:57/6:01
	6:15/6:18				
	</				

**SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM**

Date: 9/19/91

No./Name	Time In/Out		Time In/Out		Remarks
Shannon Lewis	8:22/8:25	8:41/8:48	9:03/9:06	9:20/9:28	9:43/9:47
Mills Transport	10:01/10:04	10:21/10:24	10:38/10:41	11:01/11:04	11:17/11:20
Black 415	11:33/11:36	11:53/11:56	12:15/12:19	12:35/12:37	12:52/12:54
	1:08/1:10	1:26/1:29	1:44/1:47	2:05/2:08	2:22/2:25
	2:43/2:46	3:02/3:13	3:30/3:32	3:50/3:53	4:09/4:11
	4:24/4:32	4:47/4:49	5:04/5:06	5:24/5:28	5:44/5:47
	6:05/6:08				
Boyd Green Jr.	8:24/8:27	8:46/8:49	9:08/9:10	9:28/9:43	10:00/10:03
	10:20/10:22	10:38/10:41	11:01/11:05	11:17/11:19	11:38/11:40
	12:06/12:09	12:26/12:29	12:46/12:48	1:05/1:08	1:24/1:26
	1:43/1:45	2:01/2:04	2:20/2:23	2:40/2:43	2:58/3:01
	3:16/3:21	3:38/3:41	3:58/4:01	4:18/4:21	4:38/4:41
	4:58/5:01	5:16/5:18	5:34/5:38	5:57/6:09	
Marc Warner	8:27/8:33	8:51/8:54	9:11/9:13	9:41/9:48	10:04/10:07
Mills Transport	10:22/10:25	10:41/10:44	11:19/11:22	11:40/11:42	12:07/12:10
421	12:27/12:29	12:46/12:49	1:06/1:09	1:25/1:27	1:44/1:47
	2:02/2:05	2:21/2:25	2:41/2:44	3:00/3:02	3:19/3:22
	3:39/3:41	4:00/4:03	4:19/4:21	4:40/4:46	5:02/5:05
	5:24/5:27	5:43/5:47	6:03/6:06		
Charlie Inzybury	8:41/8:44	8:59/9:03	9:18/9:24	9:40/9:47	10:01/10:08
Mills Ford	10:23/10:28	10:43/10:48	11:05/11:07	11:23/11:28	11:53/11:58
	12:15/12:19	12:35/12:39	12:55/12:59	1:18/1:21	1:36/1:39
	1:54/1:59	2:14/2:18	2:33/2:36	2:55/2:59	3:15/3:20
	3:37/3:40	3:56/3:59	4:14/4:18	4:34/3:36	4:52/4:56
	5:13/5:17	5:33/5:38	5:50/5:57	6:05/6:07	
203 Total 204					

- ☐ P.O. BOX 2199, BALLSTON SPA, NY 12020
☐ 5-5187 SOUTH PARK AVENUE, HAMBURG, NY 14075 716-648-8110
☐ 105 CORONA AVENUE, GROTON, NY 13073 607-698-5681
☐ 35 NATIONAL ROAD, EDISON, NJ 08817 201-287-2224
☐ 835 SUMMIT POINT DRIVE, HENRIETTA, NY 14487 716-359-1980
☐ MORGANTOWN IND. PARK, P.O. BOX 189, MORGANTOWN, PA 19543 215-286-6657

Contractor: CHM Job No. 27-91-

[illegible]**EMPIRE SOILS INVESTIGATIONS, INC.**

Technician: J. KING

ARCO WELLSVILLE
Construction Management
Daily Report
September 18, 1991

Arrived @ 6:25 AM ~ 52° ~ Light drizzle falling.

Inspected fill area, drizzle has'nt been falling long enough to hurt the fill surface, so allowed them to start another lift of clay, Told Mike Hsieh to keep an eye on them.

Doug Myers surveyor came in with SLA drawing, The finish grade contours at 1505' and 1506' don't tie-in at the existing road, Is 1.5' higher than road, I told them to make fit the existing elevations, and told Mike H to work with them to make it fit, we cover it with the As-built drawing. They also said that the area along the dike at Sta. 21+50 to 22+50 is already higher than called for on drawing, and there is trees on about 1/3 of it. I told Mike H to look at it, if this is right then we don't need to do anything there.

Told Mike H that he needed to get with the Empire man and get a copy of the pactor test from him.

Water has collected at the low area next to the SLA waste pile, Told John H-OHM that he would need get rid of it before placing any fill in that area.

Empire run a compaction test today all above 98%

OHM pumped water out of low place by SLA waste.

Went to clay pit, loading operation working good, material looks good.

Went out to Dike creek at North end of town on 417 - had heard that was where all of local dump trucks were working, and that is what I found.

Told John H OHM where Bakers trucks were at, he will get with Baker.

OHM stopped @ 7:00pm ~ I let at 7:45pm.

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 9-18-91 DAY: Wednesday HRS. WRK. 12 REPORT NO. 91-003

WEATHER INFORMATION:

TEMPERATURE: High 73 Low 52 WIND: Mph. 5-7 Dir. NW
PRECIPITATION: Light Drizzle HUMIDITY: high

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 0
H&SO 0 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 0
OTHERS 0 SUB. Doug Myers
" 0 SUPV. EMPS 2
USCOE/EPA 0 SUB. Empair Soil
" 0 SUPV. EMPS 1
VISITORS 0
0
0
0
0
0
MANUAL OHM GEN. LABOR 2 EQUIP. OPER. 2

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1 12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dozer				
Back Hoe	<u>1 12</u>			
Back Hoe				
Compactor	<u>1 12</u>			
Compactor				
Dump Trk.	<u>10 12</u>			
Dump Trk.				
Others				
"				
"				

MEETINGS:

PLAN OF DAY • Backfill SLA excavation.

• Surveyor reset All stakes.

SAFETY See Safety Log

SCHEDULED None

UN-SCHEDULED None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL: Placed compacted clay in SLA.

NORTH DIKE EXTENSION: No Work

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE			AGGREGATES	CY		
GEOWASTE MATERIAL	CY			TOP SOIL			
CONTAMINATED WASTE	CY			GEOTEXTILE FAB	SY		
CLEAN	CY			BEDDING MATERIAL	TON		
TOE TRENCH	CY			GEOTEXTILE FAB	SY		
KEY TRENCH	CY			CLAYMAX	SY		
RIPRAP	TON			GEOMEMBRANE	SY		
				CLAY	CY	1840	
				COMMON FILL	CY		
				RIPRAP	TON		
				MISC.			

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
TOP SOIL	CY			GEOTEXTILE FAB	SY		
AGGREGATES	CY			BEDDING MATERIAL	CY		
CLAYMAX	CY			GEOMEMBRANE	SY		
CLAY				EQUIP. FUEL & LUBE	GAL		
COMMON FILL				MISC.			
RIPRAP				MISC.			
				MISC.			

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

See Empire soil test report

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS				
SANITARY WASTE	GALS				
DEBRI	TON				
USED OIL/LUBE	GAL				
MISC.					

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
<u>None</u>	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

_____	Attached report required by Contract document
_____	" " " " " "
_____	" " " " " "
_____	" " " " " "
_____	" " " " " "

COMMENTS None

TECHNICAL CONCERNS/PROBLEMS:

None

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS: Clean

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<u>13</u>	<u>115</u>
"D" MOD	_____	_____
"D"	_____	_____
"C"	_____	_____
"B"	_____	_____
OTHER	_____	_____

DECONTAMINATION REQUIREMENTS: None

PERSONNEL:	EMPS. IN: _____	EMPS. OUT: _____
EQUIPMENT:	IN: _____	OUT: _____
VENDERS EQUIPMENT:	IN: _____	OUT: _____

ACCIDENTS/BREECHES OF PROCEDURES: None

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1 _____

2 _____

ACCIDENT/BREECHES REPORT: _____

SECURITY: See Gate Log Sheets

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-18-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
None on site today		High 73, Low 52 Light drizzel, Overcast, some breeze.
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		O=Operating S=Standby
Gary L. Stiles C.M.1	OHM John Hoff 1	
Mike Hsieh Res.Engr.1	Equip.oper 3	
Gene Sosis C&S 1	Baker-equip op 2	1-TD-5 Dozer O
	Truck drivers 6	1-Rayco 799 O
	On-site SecGuard 1	Compacter
	Dough Myers-survey 2	6-10Whl Dumps O
	Empire Soils-Geotech1	1-Water Wagon O
		2-End Loaders O

Health and Safety Issues:

- * Due to drizzel and wet condition, no dust monitoring was required.

Quality Control Issues:

- * 8 compaction tests were run. All exceeded the spec. requirements.

Problems and Concerns:

- * Had problems with the compactor.
- * Surveyor could'nt tie the common fill contour(1506.0') into the existing roadway that is at 1504.5.

Resolution of Previous Problems/Concerns:

- * Service man came out and worked on compactor, and it worked allright this P.M.
- * Layed out contours to fit existing ground, will show changes on as-builts.

Comments:

- * Surveyor staked out the north dike extension.

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 9-18-91

Sampling Activities Today	Quantity	Contractor	% Completed
* Empire collected soil for Gradiation	2-5 Gal	Empire	N/A

Major Activities Today (Non-Sampling)

* Placed compacted clay	2944 CY	OHM	73%
* (Uncompacted)			
*			

Major Activities Planned (Next 5 working days)

* Place compacted clay	2350 CY	OHM	27%
(Uncompacted)			

Summary Report:

* Place clay fill material in the SLA excavation area.

Site Manager

Gene Sosis for G. Stiles

Date

9-18-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 18, 1991
WEDNESDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1930 HRS
SUNNY, COOLER

OHM PERSONNEL:

1. J. HOFF	SUPER
2. J. CHAIRMONT	EQPT OPER
3. A. LIVINGSTON	REC TEC
4. WM. HUNT	REC TEC
5. J. BELLAMY	TRUCK DRIVER

OHM EQUIPMENT:

BLAZER SEDAN	#5102
1-TON BOX TRUCK	423
2-TON & UTIL TRAILER	
580 CASE TLB	365
2" PUMP & HOSE	4508

SUBCONTRACTED EQUIPMENT:

INT TD-15 DOZER
S/F SOIL COMPACTOR
PASSENGER VAN

SUBCONTRACTORS:

BAKERS OF JERNICO HILL
ALFRED, NY

SUPPLY & IMPORT CLAY

EMPIRE SOILS INVESTIGATIONS
ROCHESTER, NY

COMPACTION TESTING, ETC

DC MYERS, PLS
ARCADE, NY

SLA FILL OPS LAYOUT

MEETINGS:

0700 SAFETY MEETING: FILL/COMPACTION OPS, EQPT OPS &
MAINTENANCE

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. SUPPLY, IMPORT, PLACE & COMPACT CLAY FILL IN SLA.

MATERIAL RECEIVED:

1. CLAY FILL	1840 CY	EST @ 10CY/TRUCK/COMPACTED
2. COMMON FILL	0 CY	EST @ 10CY/TRUCK/COMPACTED

SAMPLES TAKEN: COMPACTION

TAKEN BY: EMPIRE SOIL INVESTIGATIONS

LEVEL OF PROTECTION:

D

DECON:

NONE REQUIRED

NORTH DIKE EXTENSION: NO ACTIVITY

MATERIAL RECEIVED: NONE

SAMPLES TAKEN: NONE

TAKEN BY: N/A

LEVEL OF PROTECTION: N/A

DECON: N/A

TECHNICAL CONCERNS & PROBLEMS

1. NONE

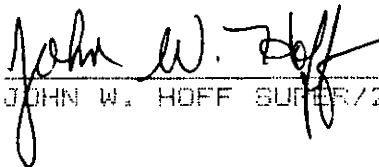
COMMENTS:

1. NONE

ACCIDENTS OR BREACHES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:



JOHN W. HOFF SUPER/2759

H&S Log #1

9/18/91 Temp. Low 56° ~ @ 6:16 AM

8:00 AM It was drizzling rain when we came in at 6:25 AM and had been for about 4 hrs. As it started at 2:00 AM to 2:30, the work area was muddy and wet.

11:30 AM Stopped raining at 9:30 AM, but still low clouds and heavy overcast, very little drying has occurred, clay is being placed by skimming off the wet material prior to placing damp clay.

3:00 PM Had more rain at 2:30 PM, just a lite shower, area is still wet.

7:30 PM Left job site. Temp. High 71°

Larry J. Steter

Mike Hsieh

9/18/91
(Wed)

Cloudy AM
73°F

Sunny PM

- ° Arrive at site 7:00 am.
- ° The SLA backfill and compaction operation has been accelerated with addition of two (2) more dump trucks.
- ° The survey crew laid out stakes along the slope of the dike to show top of compacted dike fill within SLA.
- ° The survey crew was instructed to stake out the toe-line of the common fill in the northwest corner of the fill area that will be more comparable with the existing terrain and avoid unnecessary filling in this general area.
- ° Empire testing conducted the in-place density and moisture content tests at 8 locations within SLA. All in-place density readings exceeded 95% of the standard Proctor, however, 5 moisture content readings were slightly below the tolerance limit of 7.6% (Optimum moisture content = 9.6%, tolerance limits $\pm 2\%$). Two soil samples were taken for the required grain-size analysis.
- ° Fill materials delivered in the early afternoon appeared drier than usual. OAM was instructed to add moisture by hosing during compaction. Later, a water wagon was utilized to spray the larger area.
- ° The indication of depth in the Empire testing's Sept. 17 report was clarified. It showed approxi-

more depth below the top of compacted dike fill.
All measurements were taken 12" below the compacted surface.

- Received a Fed Expr package from V. Patel containing one set of Final Design for SLA Remediation and West Bank Dike Extension, Project plans for SLA Remediation, and other documents re the Partial River Channelization Project.
- Left site at 7:00 pm

FIELD IN-PLACE DENSITY TEST REPORT



- ☐ 5 KNABNER ROAD, P.O. BOX 2199, BALLSTON SPA, NY 12020 518/899-7491
- ☐ S-5167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716/649-6110
- ☐ 105 CORONA AVENUE, GROTON, NY 13073 607/898-5881
- ☐ 140 TELEGRAPH ROAD, P.O. BOX 297, MIDDLEPORT, NY 14105 716/735-3502
- ☐ 4287 WITMER ROAD, B.P.O. BOX 188, NIAGARA FALLS, NY 14305-0188 716/297-5981
- ☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14467 716/359-1960
- ☐ 35 NATIONAL ROAD, EDISON, NJ 08817 908/287-2224
- ☐ MORGANTOWN BUS. PARK, P.O. BOX 189, MORGANTOWN, PA 19543 215/286-6657

CALL
FILLMAN @ 716-511-1110
1-800-638-8110

Project: OLD SINCLAIR REFINERY Report No: _____
 Client: EBASCO Date: 9/18/91
 Contractor: OHM Job No.: RT-91-

Test No.	Date of Test	Depth or Elevation	In-place Density (pcf)	In-place Moisture (%)	% Compaction	Proctor Code	Location and Remarks
1	9/18/91	-5" F.G.	131.8	7.0	100+		STA. 25+75, 18' LEFT OF DIKE E
2	"	-13" F.G.	132.6	6.8	100+		STA. 25+35, 60' LEFT OF DIKE E
3	"	-20" F.G.	133.0	6.3	100+		STA. 25+00, 85' " " "
4	"	-24" F.G.	122.1	7.6	96.8		STA. 24+50, 18' " " "
5	"	-30" F.G.	120.6	7.5	95.6		STA. 24+30, 78' " " "
6	"	-36" F.G.	121.4	6.7	96.3		STA. 24+00, 120' " " "
7	"	-26" F.G.	118.5	7.0	94.0		STA. 23+50, 120' " " "
8	"	-28" F.G.	124.1	7.8	98.3		STA. 23+50, RETEST OF TEST # 7

Proctor Code	Maximum Density (pcf)	Optimum Moisture (%)	Material Type and Source
	126.1	9.6	

NOTE: CLIENT WAS INFORMED OF SOME MINOR DISCREPANCIES OF TESTS

Remarks: FINISH SUBGRADE
A CLIENT'S REPRESENTATIVE, GARY STILES,
WAS INFORMED OF ALL TEST RESULTS
 Technician Time: 8:15 / 10:15
 Technician: J. KING

Respectfully submitted,
 EMPIRE SOILS INVESTIGATIONS, INC.

PROJECT ENTRY PERMIT

DATE: 9-18-91 TIME IN: 6:25 AM TIME OUT: 7:45 pm

NAME: GARY L Stiles

COMPANY: EBASCO

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

Date: 9/18/91

Date: 9/18/91

No./Name	Time In/Out	Time In/Out	Remarks
Eary Stiles	6:25 / 12:23	12:50 / 6:35	7:14 / *
Eugene Sosis	7:01 / 12:12	1:18 / 7:14	
Joe Sharra			
Mike Hsieh	7:03 / 12:12	1:18 / 7:08	
John Hoff	6:45 / 6:54		
J. Clairmont	6:45 / 6:54		
Algie Livingston	6:45 / 6:54		
Bill Hunt	6:45 / 12:33	1:03 / 6:54	
Jon Palmer	6:57 / 6:58	9:32 / 9:37	9:53 / 10:00
Jerry Palmer	6:57 / 11:50	12:51 / 7:15	
Randy Crooks	7:01 / 9:33	9:40 / 12:11	12:47 / 3:11
Doug Lingue	7:01 / 9:33	9:40 / 12:11	12:47 / 3:11
Todd Baker	6:45 / 6:57	6:55 / 7:11	
Don Pye	8:58 / 10:21	1:23 / 2:15	2:57 / 3:00
Jim King	10:12 / 12:15		
BRANDON SMITH	12:26 / 12:30		
Jim Fisher	1:18 / 1:43		
Dan Deming	1:18 / 1:43		

SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM

Date: 9/18/91

No./Name	Time In/Out		Time In/Out		Remarks
Dale Baker	6:57/7:00	7:14/7:17	7:33/7:35	7:51/7:53	8:12/8:14
Dodge	8:29/8:31	8:47/8:49	9:05/9:08	9:24/9:29	9:42/9:47
	10:02/10:04	10:19/10:23	10:38/10:40	10:55/10:59	11:15/11:18
	11:13/11:37	11:52/11:57	12:10/12:13	12:28/12:31	12:47/12:50
	1:06/1:08	1:23/1:26	1:41/1:45	2:01/2:03	2:18/2:21
	2:40/2:44	3:00/3:02	3:17/3:19	3:36/3:39	3:55/3:57
	4:11/4:13	4:30/4:32	4:53/4:55	5:10/5:12	5:27/5:29
	5:44/5:47	6:02/6:06			
Charlie Baker	7:06/7:09	7:23/7:26	7:44/7:46	8:02/8:05	8:23/8:25
T-9	8:40/8:42	8:58/9:01	9:17/9:20	9:35/9:37	9:53/9:57
	10:43/10:46	11:07/11:10	11:25/11:28	11:44/11:46	12:01/12:04
	12:22/12:25	12:44/12:47	1:03/1:06	1:22/1:25	1:41/1:48
	2:02/2:06	2:22/2:25	2:42/2:44	3:01/3:04	3:18/3:21
*John Perkins	3:44/3:46 *	4:00/4:04	4:19/4:23	4:45/4:47	5:08/5:03
T-9	5:17/5:18	5:32/5:34	5:47/5:50		
Russ Layton	7:09/7:11	7:27/7:30	7:46/7:48	8:07/8:09	8:24/8:26
◊ REO	8:42/8:45	9:00/9:04	9:18/9:20	9:36/9:38	9:53/9:56
	10:10/10:12	10:29/10:31	10:46/10:48	11:03/11:05	11:20/11:22
	11:37/11:39	11:53/11:54	12:09/12:11	12:26/12:28	12:45/12:47
	1:05/1:07	1:22/1:25	1:40/1:43	1:59/2:02	2:26/2:23
	2:46/2:43	2:59/3:01	3:16/3:19	3:34/3:36	3:53/3:56
	4:11/4:13	4:28/4:32	4:47/4:49	5:04/5:06	5:22/5:24
	5:39/5:41	5:55/5:57	6:12/6:28		
Roy Cartwright	7:10/7:12	7:28/7:30	7:49/7:51	8:07/8:10	8:26/8:29
T-8	8:44/8:46	9:02/9:05	9:21/9:23	9:41/10:17	10:35/10:38
	10:55/10:58	11:13/11:17	11:33/11:36	11:52/11:55	12:13/12:16
	12:32/12:35	12:51/12:55	1:11/1:16	1:33/1:37	1:53/1:57
	2:11/2:15	2:33/2:36	2:53/2:56	3:12/3:14	3:30/3:34
	3:53/3:56	4:13/4:16	4:30/4:33	4:49/4:51	5:07/5:09
	5:25/5:28	5:43/5:46	6:00/6:04		

Date: 9/18/91

Date: 9/18/91

Remarks

[illegible]

ARCO WELLSVILLE
Construction Management
Daily Reports
September 17, 1991

ARRIVED @ 6:20 AM ~ HAD .70" OF RAIN LAST NIGHT
but has stopped, Temp. is 72°.

CLAY TRUCKS STARTED RUNNING AT 6:55 AM, I
TOLD JOHN H OHM TO ONLY DUMP LOADS UNTIL HE
HAD DRIED THE SURFACE WITH THE DOZER AND
COMPACTOR.

INSPECTED SLA FILL AREA AT 7:20 AM, SURFACE
WAS DRY ENOUGH TO START A LIFT ALONG
ACCESS ROAD, BUT WILL NEED TO WORK REMAINDER
OF SURFACE SOME MORE.

PHONE'S ARE NOT WORKING IN THE EPA OFFICE,
ARCO OFFICE AND FAX LINE, CALLED COMDIAL REP.
THEY ARE NO LONGER IN BUSINESS, CALLED COMDIAL
CUSTOMER SERVICE REP. IN MARYLAND, SHE GAVE
ME THE NO FOR MIKE WILLIAM (716) 373-1901. I CALLED
HIM HE WILL BE OUT AROUND NOON.

MIKE RYWNICK USCOE CAME IN AT 10:00 AM, I BRIEFED
HIM ON WHAT WE HAD PLANNED FOR THIS TASK.

Went to fill area, Dozer Operator was pushing fill into water hole, Stopped him told John H to get a pump, and pump off the water or stopped placing clay.

OHM set-up pump and pump out water holes, I told John H. that he need to instruct the compactor operator to not run the vibrator as he is pumping water up through the clay. John talked to him.

Went to clay pit, material is dry on inside of pile, told loader operator to send the dry material until we have made at least 1 lift, then he can blend some of the wet with the dry.

Phone man showed up at 11:45am - told him what the problem was, he went to work.

Tom G. Called. Discussed and agreed on scope change cost to ARLO.

Discussed water and electric bill, approved for payment.

I went to Post Office - the P.O. Box 1138 has been rented to some-else, they didn't think we

still around, will give us another, but I told them to hold everything in Gen. Delivery until next year, If 1138 becomes available, I want it.

I asked John H why there is only 4 trucks on the haul, he didn't know will talk to Baker.

Empire Soils took 8 test, All above 95%.

Mike Hsieh - Can't find the drawings or Spec's, I told him to call VINU *6078, he came back and me that VINU didn't have them, I called MARIO V. and told were to get a set for us, he will have them sent out tomorrow.

Dave Christensen called at 2:15 pm.

- I briefed him on progress.
- He will be in Lyndhurst on wed. and then to L.A. rest of week.

Phone man found problem with phone is a short in the main switch module, it is under warranty he will order a replacement for us when we come back-up next year.

Told Joe Sbarra to return to Lyndhurst on Wednesday.

OHM stopped work @ 7:00 pm ~ I left site @ 8:20 pm

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 9-17-91 DAY: Tuesday HRS. WRK. 12 REPORT NO. 91-002

WEATHER INFORMATION:

TEMPERATURE: High 82 Low 71 WIND: Mph. 5-10 Dir. NW
PRECIPITATION: .07" HUMIDITY: High

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 0
H&SO 1 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 0
OTHERS 0 SUB. Doug Myers
" 0 SUPV. EMPS 2
USCOE/EPA 1 SUB. EMPAIR Soil
" 0 SUPV. EMPS 1
VISITORS 0
0
0
0
0

MANUAL OHM GEN. LABOR 2 EQUIP. OPER. 2

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1 - 12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dozer		<u>/</u>	<u>/</u>	<u>/</u>
Back Hoe		<u>/</u>	<u>/</u>	<u>/</u>
Back Hoe		<u>/</u>	<u>/</u>	<u>/</u>
Compactor	<u>1 - 12</u>	<u>/</u>	<u>/</u>	<u>/</u>
Compactor		<u>/</u>	<u>/</u>	<u>/</u>
Dump Trk.	<u>4 - 14</u>	<u>/</u>	<u>/</u>	<u>/</u>
Dump Trk.		<u>/</u>	<u>/</u>	<u>/</u>
Others		<u>/</u>	<u>/</u>	<u>/</u>
"		<u>/</u>	<u>/</u>	<u>/</u>
"		<u>/</u>	<u>/</u>	<u>/</u>

MEETINGS:

PLAN OF DAY

• Backfill with clay.
• To PO and layout NDE.

SAFETY

See Attached Safety log

SCHEDULED

None

UN-SCHEDULED

None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL: Placed compacted CLAY AT SLA 1280 CV.

NORTH DIKE EXTENSION:

Surveyors Layout cut & Fill
stakes AND Topo of Area.

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE		
GEOWASTE MATERIAL	CY		
CONTAMINATED WASTE	CY		
CLEAN	CY		
TOE TRENCH	CY		
KEY TRENCH	CY		
RIPRAP	TON		

TYPE	UNIT	EST.	QTY.
AGGREGATES	CY		
TOP SOIL			
GEOTEXTILE FAB	SY		
BEDDING MATERIAL	TON		
GEOTEXTILE FAB	SY		
CLAYMAX	SY		
GEOMEMBRANE	SY		
CLAY	CY		1280
COMMON FILL	CY		
RIPRAP	TON		
MISC.			

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.
TOP SOIL	CY		
AGGREGATES	CY		
CLAYMAX	CY		
CLAY			
COMMON FILL			
RIPRAP			

TYPE	UNIT	EST.	QTY.
GEOTEXTILE FAB	SY		
BEDDING MATERIAL	CY		
GEOMEMBRANE	SY		
EQUIP. FUEL & LUBE	GAL		
MISC.			
MISC.			
MISC.			

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

see Empire soil test report.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS				
SANITARY WASTE	GALS				
DEBRI	TON				
USED OIL/LUBE	GAL				
MISC.					

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
<i>580 Case Inc</i>	YES <i>X</i> NO	<i>Yes</i>	<i>G. Stiles</i>
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

_____	Attached report required by Contract document
_____	" " " " " "
_____	" " " " " "
_____	" " " " " "
_____	" " " " " "

None

COMMENTS

No sampling will be performed during this task.

TECHNICAL CONCERNS/PROBLEMS:

None

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS: *Clean*

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	<i>13</i>	<i>117</i>
"D" MOD	_____	_____
"D"	_____	_____
"C"	_____	_____
"B"	_____	_____
OTHER	_____	_____

DECONTAMINATION REQUIREMENTS: *None*

PERSONNEL: EMPS. IN: _____	EMPS. OUT: _____
EQUIPMENT: IN: _____	OUT: _____
VENDERS EQUIPMENT: IN: _____	OUT: _____

ACCIDENTS/BREECHES OF PROCEDURES: *None*

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1	<i>None</i>
2	_____

ACCIDENT/BREECHES REPORT:

None

SECURITY: See Attached Gate logs-

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-17-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
Mike Hrywnak-USCOE	Mike Williams-ComDial	High 82, Low 71 Had .7" Rain during night. Partly cloudy
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		
Gary L. Stiles C.M.1	OHM John Hoff 1	O=Operating
Joe Sabarra H&S 1	Equip.oper 1	S=Standby
Gene Sosis C&S 1	Baker-equip op 1	1-TD-5 Dozer
Mike Hsieh Res.Engr.1	Truck drivers 4	1-Rayco 799
	On-site SecGuard 1	Compacter
	Dough Myers-survey 2	4-10Whl Dumps
	Empire Soils-Geotech1	1-Water Wagon
		2-End Loaders

Health and Safety Issues:

- * Air monitoring for dust.

- * Meeting was conducted with local emergency groups
at 2:30 pm Mon 9-16-91

Quality Control Issues:

- * Performed compaction test on placed fill material,
all tests exceeded the 95% required by spec.

Problems and Concerns:

- * Due to last nights rain, we had problems with soft
spots

Resolution of Previous Problems/Concerns:

- * Dry material was pushed over the soft spots to dry
material in areas where material would not dry.
The wet stuff was pushed out and spread in the
common fill area to dry.

Comments:

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO Site: Wellsville Date: 9-17-91

Sampling Activities Today	Quantity	Contractor	% Completed
None			

Major Activities Today (Non-Sampling)

* Placed compacted clay	2048 CY	OHM	38%
* (Uncompacted)			
*			

Major Activities Planned (Next 5 working days)

* Place compacted clay	5294 CY	OHM	62%

Summary Report:

* Clay quantity is based on Truck/Load count, ea. load
is estimated at 16 CY at 15% fluff. i.e. 7400 CY X.15=
8510 CY.
Mon total 1,168 CY - 8510 CY= 7,342 CY
Tues total 2,048 CY - 7342 CY= 5,294 CY

Site Manager

Larry J. Stetson

Date

9-17-91

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 17, 1991
TUESDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1900/SHIFT
SUNNY, WARM

OHM PERSONNEL:

1. J. HOFF	SUPER
2. J. CHAIRMONT	EQPT OPER
3. A. LIVINGSTON	REC TEC
4. W. HUNT	REC TEC

OHM EQUIPMENT:

BLAZER SEDAN #5102
1-TON BOX TRUCK # 423
RENTAL EQUIPMENT:
TD-15 DOZER
S/F SOIL COMPACTOR

SUBCONTRACTORS:

BAKERS OF JERICHO HILL
WELLSVILLE, NY

SUPPLY & IMPORT CLAY FILL

EMPIRE SOIL INVESTIGATIONS
ROCHESTER, NY

COMPACTION TESTING & ANALY

MEETINGS:

0700 SAFETY MEETING: TASKS AT HAND, EQPT OPERATION SAFETY,
EQPT MAINTENANCE, DEWATERING TASKS

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. SUPPLY, IMPORT, PLACE AND COMPACT CLAY FILL, AS PER SPEC
5. DEWATER WATER NORTH SLA ACCUMULATION FROM LAST NIGHTS
RAIN.

MAT'L REC'VD: 1280 CY	CLAY FILL	EST @ 10CY/TRUCK
NONE	COMMON FILL	EST @ 10CY/TRUCK

SAMPLES TAKEN: ONE (1) FOR SIEVE ANALYSIS
TAKEN BY: EMPIRE SOILS INVESTIGATION

LEVEL OF PROTECTION: BACKFILL
DECON: NONE REQUIRED.

D

NORTH DIKE EXTENSION:

1. NO ACTIVITY

SAMPLES TAKEN: N/A
LEVEL OF PROTECTION: N/A
DECON: N/A

TECHNICAL CONCERNS & PROBLEMS:

1. NONE

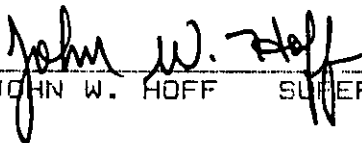
COMMENTS:

1. ON SCHEDULE

ACCIDENTS OR BREECHEES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:



JOHN W. HOFF SUPER/2759

④

ARCO - Wellsville SLA Backfill

HVS Log #1

09/17/91

9/18/91

1345-1400

15 Minute Dust TWA - .00 mg/lm³

8:00

Activities - unload / dump clay fill, ³⁵ bulldoze

bulldoze / push fill.

1455-1600

15-Minute Dust TWA - .01 mg/lm³

Activities - same as above

1700-1715

15 - Minute Dust TWA - .00 mg/lm³

11:30

Activities same as above

1830-1845

15-Minute Dust TWA - .00 mg/lm³

Activities same as above

1935-1940

Train G Stiles on M16 Miniram operation

2000

1945

3:15

Leave jobsite for day

3:00

7:30

Joseph L. Starna

ARCO-Wellsville — SLA Backfill

③

H&S Log # 1

09/17/91

0730 Arrive on-site Weather - partly cloudy, 60°F, moderate breeze
Rain overnight

0800-0805 Brief OHM personnel: Algie Livingston, Bill Hunt

- 1910.120 does not apply to SLA work

- Level D PPE: hardhat, safety glasses, sturdy
work boots

- No anticipated chemical contamination

- SLA material excavated & moved previously

0925-
0940

15 minute TWA dust = .00 mg/m³

Activities - unload/dump clay fill, drag pushing
material, roller compacting material

1115-1130

15 minute TWA dust = .00 mg/m³

Activities - same as above

1135-1140

Brief Empire soils tester ()

Cover some information as 0800-0805 briefing

1245-1330

Lunch

~~Joseph E. Shana~~

measured in-place density all exceeded 95% of the standard Proctor Tests, however, the measurements were not taken at a depth of 12" required by Section 02200

- Mike — of ACE showed up in AM. He was concerned about filling over the water ponding initially but appears satisfied after the water was pumped and wet soil aereated.
- The SLA operation appears effective.
- Redo In-place density tests or clarify the depth indications in the report (9-17-91)
- Request OAM to perform gradation tests of the fill material once every 1000 cy. in accordance with Sec. 02200.
- Left Site at 7:15 pm

PROJECT ENTRY PERMIT

DATE: 9-17-91 TIME IN: 6:20 AM TIME OUT: 8:15 pm

NAME: GARY L Shles

COMPANY: EBASCO CONSTR. INC

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-17-91 TIME IN: 7³⁰ AM TIME OUT: 8³⁰ PM

NAME: GENE SOSIS

COMPANY: EBASCO

BADGE No: L 003150

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-17-91 TIME IN: 7:30am TIME OUT: 8:30 pm

NAME: Joe Shanna

COMPANY: EBASCO

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9/17/91 TIME IN: 7:00 am TIME OUT: 7:15 pm

NAME: Mike Hsieh

COMPANY: Ebasco Environmental

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM

Date: 9/17/91

No./Name	Time In/Out	Time In/Out	Remarks
~~6:20~~ Gary Stiles	~~7:00~~ 13:01	4:06 / *	EBASCO
Eugene Sosis	7:00 / 12:52	1:31 / *	EBASCO
Joe Sharra	7:30 / 12:29	1:23 / *	EBASCO
Mike Hsieh	7:00 / 12:52	1:31 / *	EBASCO
John Hoff	7:00 / 7:05		OHM
J. Clairmont	7:05 / 7:05		OHM
Algie Livingston	7:05 / 8:16	9:00 / 12:04	12:48 / 1:46 2:49 / 7:05
Bill Hunt	7:05 / 7:05		OHM
Jerry Palmer	7:00 / 12:15	1:18 / 7:00 PM	On-Site
Jan Palmer	7:00 / 7:01	9:21 / 10:33	12:10 / 1:30 7:00
Charlie Baker	8:08 / 8:20	1:15 / 1:18	3:50 / 4:15 6:18 / 6:27
Mike Hrywnak	9:20 / 13:31		B.J.H.
Dick Grayford	9:57 / 10:29		U.S. Army Corps.
Bob Blake more	10:08 / 11:06	2:08 / 12:18	2:47 / 3:40
Mike Williams	11:15 / 12:43		phone repair
Culligan Water	12:00 / 12:02		Empire Soils
Patton's Disposal	12:00 / 12:03		Mike telephone Serv.
Don PLE	12:13 / 12:36		deliver Dumpster
ORLANDO SMITH	12:47 / 12:50		BAKER'S MECHANIC
Niagara Mohawk	1:45 / 1:48		FEDEX
Jim Lapey	2:05 / 2:18		Read meter
DeHamy Jones	4:10 / 5:03		OHM
Todd Baker	6:07 / 6:48		service equipment

Date: 9/17/91

Date: 9/17/91

No./Name	Time In/Out		Time In/Out		Remarks
John Perkins	6:55/7:07	7:20/7:25	7:44/7:47	8:05/8:07	8:21/8:23
T-9	8:40/8:43	8:57/9:00	9:14/9:17	9:33/9:35	9:50/9:55
	10:09/10:11	10:27/10:30	10:50/10:53	11:06/11:09	11:24/11:26
	11:44/11:46	12:03/12:05	12:20/12:23	12:39/12:41	12:58/1:02
	1:18/1:20	1:36/1:39	1:54/1:56	2:10/2:14	2:31/2:33
	2:50/2:53	3:09/3:12	3:27/3:29	3:44/3:47	4:03/4:05
	4:21/4:23	4:37/4:40	4:56/4:58	5:18/5:20	5:36/5:38
	5:55/5:58				
Russ Layton	7:04/7:09	7:29/7:31	7:49/7:52	8:08/8:10	8:25/8:28
RF	8:44/8:46	9:02/9:05	9:21/9:24	9:40/9:43	9:59/10:01
	10:15/10:17	10:35/10:37	10:53/10:55	11:10/11:12	11:27/11:30
	11:47/11:49	12:06/12:08	12:25/12:28	12:46/12:49	1:04/1:07
	1:24/1:26	1:45/1:49	2:05/2:08	2:23/2:25	2:41/2:43
	3:00/3:02	3:19/3:21	3:38/3:46	4:00/4:03	4:20/4:22
	4:37/4:39	4:55/4:57	5:10/5:19	5:35/5:38	5:54/5:56
	6:15/6:18				
Dale Baker	7:07/7:11	7:30/7:34	7:56/7:58	8:13/8:16	8:33/8:35
WDGZ	8:52/8:54	9:08/9:11	9:26/9:28	9:44/9:46	10:01/10:04
	10:20/10:22	10:37/10:40	10:55/10:58	10:13/11:20	11:35/10:37
	11:54/11:56	12:12/12:15	12:30/12:33	12:49/12:52	1:07/1:10
	1:29/1:31	1:47/1:51	2:07/2:09	2:24/2:27	2:44/2:46
	3:02/3:04	3:20/3:23	3:39/3:46	4:00/4:04	4:20/4:23
	4:37/4:40	4:54/4:57	5:14/5:17	5:35/5:38	5:52/5:55
	6:13/6:16				
Roy Cartwright	7:10/7:14	7:31/7:35	7:56/8:00	8:16/8:20	8:35/8:39
T-8	8:55/8:57	9:14/9:17	9:35/9:37	9:55/9:58	10:14/10:16
	10:35/10:37	10:54/10:57	11:13/11:25	11:45/11:47	12:04/12:07
	12:24/12:27	12:44/1:18 ^{PM}	5:22/5:26	5:43/5:47	6:03/6:06
128 Total					

EMPIRE

SOILS INVESTIGATIONS INC.

- ☐ 5 KNABNER ROAD, P.O. BOX 2199, BALLSTON SPA, NY 12020 518/899-7491
☐ S-5167 SOUTH PARK AVENUE, P.O. BOX 0913, HAMBURG, NY 14075 716/649-8110
☐ 105 CORONA AVENUE, GROTON, NY 13073 607/898-5881
☐ 140 TELEGRAPH ROAD, P.O. BOX 297, MIDDLEPORT, NY 14105 716/735-3502
☐ 4287 WITMER ROAD, B.P.O. BOX 188, NIAGARA FALLS, NY 14305-0188 716/297-5981
☐ 535 SUMMIT POINT DRIVE, HENRIETTA, NY 14467 716/359-1960
☐ 35 NATIONAL ROAD, EDISON, NJ 08817 908/287-2224
☐ MORGANTOWN BUS. PARK, P.O. BOX 189, MORGANTOWN, PA 19543 215/286-6657

Report No: _____

Date: 9-17-91

Job No.: 12191-

Respectfully submitted,

EMPIRE SOILS INVESTIGATIONS, INC.

Technician: Robert Blomgren

ARCO WELLSVILLE
Construction Management
Daily Report
September 16, 1991

Arrived 6:10 am

OHM Supt. John Huff and 1 operator was there, John told me had 2 more people on their way as well as more equipment, should be in by 10:00 am.

John Palmer of On-Site security came in 7:00 am we agreed on a price for guard service during this phase of work, He will man the gate by 7:30 am.

Doug Myers Surveyors arrived at 7:15 am, I had them get with Joe Sbarra-HSO and then outlined what I wanted them to do (Lay-out the SLA excavation on 50' grids from Dike @ Sta. then Topo entire SLA area) they started work.

John Huff of OHM asked if he could start Proof rolling area I told him not to start until the Surveyors were through with Topo.

Surveyors came in at 9:00am with Topo information, after reviewing it and their lay-out I told OHM (John H) that he was released to start Proof Rolling.

OHM started Proof Rolling at 9:30am.

John Huff requested inspection SLA Proof Rolling at 12:15pm, I walked the area and had the roller operator make cross passes so I could witness the amount of penetration of the sheep-foot, I found no soft spots so approved area.

Started placing clay at 12:45pm, 4 trucks on haul.

Went to Baddit Pit to inspect clay load-out, clay is being loaded from same processed material stock pile that was developed during the 1990 season and approved for use as compacted clay material, Empire Soils had pulled material samples for Proctor Calibrations on Thursday September 12, 1991.

A meeting was conducted at 2:30 p.m. to inform the local Emergency Services Representatives

of the activities planned for this work task
(see the attached Attendees sheet for
names in attendance and organization
they represent.)

- Outlined SOW for this task, AS SLA Backfill
and North Dike Extension.
- Schedule is 4 weeks for SLA Backfill
and 3 weeks for North Dike Extension.
- All SLA work will be performed AS
"clean work" with no haz, waste PPE
required, monitoring for dust will be
on-going...
- The only know material that may
contain a contaminate is the strippings
from the NDE, there is "Arsenic" present
in some of that area. Work is schedule
to start there in 3 to 4 weeks depending
on weather, At that time the material
will be stripped to a depth of 6" and loaded
onto a dump truck and transported
to the CELA designated spoil area and
stock-piled. Real-time Air-monitoring
will be on-going during this activity,
Personnel working in this Area will
be in level "D" PPE, All equipment will
be de-contaminate at end of activity.
- None of the work schedule for this

- task is expected to release any orders.
- Introduced Joe Sbarra HSO ~ Joe explained his duties and handed out a Emergency Phone List and map shown route for emergency vehicles traffic.
 - Introduced Dave Christensen and Danny Wong of ARCO ~ Dave outlined the up-coming work and then I gave some logic detail for 1992 season.

Dave C and I went out to the SLA area I walked through the "Planned Activities".

Mark K. of OHM met us, we talked about the North Dike Extension (NDE) and decided to go ahead with it, I asked Mark to get me his price to start next week, so I can get it approved.

Dave and Danny left at 3:20pm.

Mike Hsieh Resident Engineer arrived @ 3:10pm.

Mike Rywnick called the Guard @ 10:10am and told him that he wouldn't be able make it today but will be on site tomorrow.

OHM stopped work @ 7:00pm ~ I left at 7:30pm.

SINCLAIR REFINERY SITE

SLA BACKFILL & NORTH DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: EBASCO

DATE: 9-16-91 DAY: Monday HRS. WRK. 12 REPORT NO. 91-001

WEATHER INFORMATION:

TEMPERATURE: High 87 Low 68 WIND: Mph 15-20 Dir. NW
PRECIPITATION: 0 HUMIDITY: N/A

PERSONNEL: NON-MANUAL EBASCO C.M. 1 OHM.P.S. 1
RES.E 1 P.M. 1
H&SO 1 HOP 0
C/SE 1 " 0
F.E/I 0 " 0
HOP 0
" 0
" 0
ARCO P.M. 1
OTHERS CTH 1 SUB. Doug Myers
" 0 SUPV. EMPS 2
USCOE/EPA Called. Will be SUB.
" IN Tuesday SUPV. EMPS
VISITORS

Conducted Meeting with Local
emergency groups.

MANUAL OHM GEN. LABOR 2 EQUIP. OPER. 2

EQUIPMENT:	OPERATED (hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer	<u>1- 10</u>	<u>2</u>	<u></u>	<u></u>
Dozer	<u></u>	<u></u>	<u></u>	<u></u>
Back Hoe	<u></u>	<u></u>	<u></u>	<u></u>
Back Hoe	<u></u>	<u></u>	<u></u>	<u></u>
Compactor	<u>1- 10</u>	<u>2</u>	<u></u>	<u></u>
Compactor	<u></u>	<u></u>	<u></u>	<u></u>
Dump Trk.	<u>4- 6</u>	<u>6</u>	<u></u>	<u></u>
Dump Trk.	<u></u>	<u></u>	<u></u>	<u></u>
Others	<u></u>	<u></u>	<u></u>	<u></u>
"	<u></u>	<u></u>	<u></u>	<u></u>
"	<u></u>	<u></u>	<u></u>	<u></u>

MEETINGS:

PLAN OF DAY • Mobilize personnel and equipment.
• Topo SLA excavation
• Proof Roll SLA excavation
• Place clay in SLA

SAFETY held with plan-of-day - see attached safety log sheet.

SCHEDULED Met with local Emergency groups and briefed them on scope-of-work planned for this task.
see attached Attendance sheet.

UN-SCHEDULED
None

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SLA BACKFILL: • Mobilize contractor equipment and personnel.
• Topo SLA excavation area.
• Proof Roll SLA area
• Start clay placement in SLA.

NORTH DIKE EXTENSION:
No Work

MATERIALS HANDLED:

TYPE UNIT EST. QTY.

CLEARING BRUSH ACRE		
GEOWASTE MATERIAL	CY	/
CONTAMINATED WASTE	CY	/
CLEAN	CY	/
TOE TRENCH	CY	/
KEY TRENCH	CY	/
RIPRAP	TON	/

TYPE UNIT EST. QTY.

AGGREGATES	CY	/
TOP SOIL		/
GEOTEXTILE FAB	SY	/
BEDDING MATERIAL	TON	/
GEOTEXTILE FAB	SY	/
CLAYMAX	SY	/
GEOMEMBRANE	SY	/
CLAY	CY	710
COMMON FILL	CY	/
RIPRAP	TON	/
MISC.		/

MATERIALS RECEIVED:

TYPE UNIT EST. QTY.

TOP SOIL	CY	/
AGGREGATES	CY	/
CLAYMAX	CY	/
CLAY		/
COMMON FILL		/
RIPRAP		/

TYPE UNIT EST. QTY.

GEOTEXTILE FAB	SY	/
BEDDING MATERIAL	CY	/
GEOMEMBRANE	SY	/
EQUIP. FUEL & LUBE	GAL	/
MISC.		/
MISC.		/
MISC.		/

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

Clay received for backfill, came from the Babbit Pit
that was approved last year.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	/	/	/
SANITARY WASTE	GALS	/	/	/
DEBRI	TON	/	/	/
USED OIL/LUBE	GAL	/	/	/
MISC.		/	/	/

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
2 Beta-Johns	YES X NO	N/A	HPJ
1 Dumpster	YES X NO	N/A	HPJ
1 TD-5 Dozer	YES Y NO	N/A	HPJ
1 Rayco Compactor	X	N/A	HPJ
4 Dump Trucks	X		

SAMPLING & ANALYSIS ACTIVITIES:**REPORT NUMBERS**

	Attached report required by Contract document
_____	" " " " " "
_____	" " " " " "
_____	" " " " " "
_____	" " " " " "

COMMENTS

Check Baddit Pit to verify that clay pit
was coming from the approved source
shy

TECHNICAL CONCERNS/PROBLEMS:

None

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS: Modified 'D', clean

LEVEL	NUMBER OF EMPLOYEES	TOTAL MANHOURS EXPOSED
CLEAN:	11	81
"D" MOD	2	16
"D"		
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS: None

PERSONNEL:	EMPS. IN: _____	EMPS. OUT: _____
EQUIPMENT:	IN: _____	OUT: _____
VENDERS EQUIPMENT:	IN: _____	OUT: _____

ACCIDENTS/BREECHES OF PROCEDURES:

NO. TIME LOCATION EMP.NO./EQUIP.NO. INJURY/DAMAGE RESPONSE

1 1830 - SLA bypass road
2

ACCIDENT/BREECHES REPORT:

1. Civilian walking on by-pass road - was called out of car, and
informed that this is a hazardous work area, and was told not
to enter the site again.

SECURITY: See Attached Gate log

ATTACH: GATE LOG OR DELIVERY LOG THAT DESCRIBES ALL VEHICLES AND
PERSONNEL ENTERING OR EXITING PROJECT.

ARCO Waste Site
Daily Activity Report

Page 1

Date: 9-16-91

Contractor: Ebasco Constructors Inc. Site: Wellsville

Project: Sinclair Refinery Site - SLA Backfill

Agency Name	Visitor(Name/Co.)	Weather
Called in, will be on site Tuesday	Dave Christensen-ARCO Dan Wong -ARCO Mark Kraecz -OHM Representatives of Local Emergency Groups	Partly cloudy w/light breeze 15 to 20 MPH High 87, Low 68
Contractor Personnel Type	Subcontractors # (Name/Svcs.)	Major Equipment # On-Site
EBASCO:		
Gary L. Stiles C.M.1	OHM John Hoff 1	O=Operating
Joe Sabarra H&S 1	Equip.oper 1	S=Standby
Gene Sosis C&S 1	Baker-equip op 1	1-TD-5 Dozer
Mike Hsieh Res.Engr.1	Truck drivers 4	1-Rayco 799
	On-site SecGuard 1	Compacter
	Dough Myers-survey 2	4-Lowhed Dump
		1-Water Wagon
		2-End Loaders

Health and Safety Issues:

- * Air monitor of work area was conducted during work activities.
- * All Personnel was briefed on site specifics prior to start of work.

Quality Control Issues:

- * Visual inspection of existing soil was approved for start of clay placement.
- * Clay material source was inspected and approved prior to start

Problems and Concerns:

- * None

Resolution of Previous Problems/Concerns:

- * None

Comments:

Extreme dry conditions have existed through out the summer.

ARCO Waste Site
Daily Activity Report

Page 2

Contractor: EBASCO

Site: Wellsville

Date: 9-16-91

Sampling Activities Today	Quantity	Contractor	% Completed
None	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

Major Activities Today (Non-Sampling)

* Mobilize personnel & equipt.	N/A	N/A	90%
* Topo SLA area & set fill stakes_C-S_		Doug Myers	100%
* Proof Roll & Shape SLA area	C-S	OHM	100%
* Place compacted clay fill	1168 CY	OHM	16%

Major Activities Planned (Next 5 working days)

* Place compacted clay fill			84%

Summary Report:

Started site mobilization @ 6:20 am, with Plan-of day meeting.

Security service was put-in-place at 7:00 am.

OHM moved a Compactor and Dozer to the SLA area at 8:30 am.

Doug Myers Surveyors completed Topo of area at 9:30 am.

OHM started Proof-Rolling & Shaping at 9:30 am, completed at 1:10 pm.

Baker started clay fill delivery at 12:00 noon, work was stopped at 7:20 pm for the day.

Site Manager _____ Date _____

SINCLAIR REFINERY SITE
SLA BACKFILL & NORTH DIKE EXTENSION
WELLSVILLE, NY

DAILY PROGRESS REPORT

PAGE 1 OF 2

SEPT 16, 1991
MONDAY

OHM CORP
NORTHEAST REGION
PRINCETON, NJ

0700-1900/SHIFT
SUNNY, WARM
RAIN IN PM

OHM PERSONNEL:

1. M. KRAVECZ	PROJ MGR
2. J. HOFF	SUPER
3. J. CHAIRMONT	EQPT OPER
4. A. LIVINGSTON	REC TEC
5. W. HUNT	REC TEC

OHM EQUIPMENT:

BLAZER SEDAN #5102
1-TON BOX TRUCK # 423

RENTAL EQUIPMENT:

TD-15 DOZER
S/F SOIL COMPACTOR

SUBCONTRACTORS:

BAKERS OF JERICHO HILL
WELLSVILLE, NY

SUPPLY & IMPORT CLAY FILL

DC MYERS, SURVEYOR, PC
ARCADE, NY

LAYOUT & INITIAL SLA TOPO

MEETINGS:

0715 SAFETY MEETING: TASKS AT HAND, SITE SAFETY PLAN, SOP, EQPT OPERATION SAFETY, EQPT MAINTENANCE.

1100 ADDITIONAL SCOPE MEETING W/G. STYLES/EBASCO, J. HOFF, M. KRAVECZ...NORTH DIKE EXTENSION APPROVED, MORE ADDITIONAL CREW & EQUIPMENT, AS NEEDED.

TASKS COMPLETED/UNDERWAY:

SLA BACKFILL:

1. RECIEVE & INSPECT RENTAL DOZER AND SOIL COMPACTOR, APPROVED BY JW HOFF
2. TOPO SLA
3. PROOF ROLL SLA
4. SUPPLY, IMPORT, PLACE AND COMPACT CLAY FILL, AS PER SPEC
5. APPLY WATER, FROM ON SITE SOURCE, FOR DUST SUPPRESSION

MAT'L REC'VD:	730 CY	CLAY FILL	EST @ 10CY/TRUCK
	NONE	COMMON FILL	EST @ 10CY/TRUCK

SAMPLES TAKEN: NONE

LEVEL OF PROTECTION: SURVEY MOD D
BACKFILL D
DECON: WASH SOIL COMPACTOR AFTER PROOF ROLL

NORTH DIKE EXTENSION:

1. RECIEVE THE 'GO AHEAD' TO COMPLETE THIS TASK, ASAP
2. MK, JWH WALK SITE
CY RECIEVED: NONE
SAMPLES TAKEN: NONE
LEVEL OF PROTECTION: D
DECON: NONE

TECHNICAL CONCERNS & PROBLEMS:

1. NONE

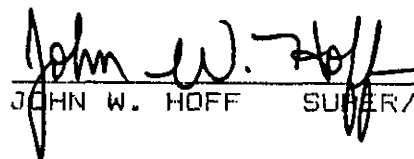
COMMENTS:

1. ON SCHEDULE
2. TENATIVE SCHEDULE OF DIKE OPERATIONS TO BEGIN ON
MONDAY/SEPT 23, 91

ACCIDENTS OR BREECHES OF PROCEDURES:

1. NONE

SUBMITTED FOR OHM BY:


JOHN W. HOFF SUPER/2759

ARCO - Wellsville

①

SLA - Backfill

H+S Log # 1

09/16/91

0730 Arrive on-site

0735-0745 Brief surveyors : Doug Tingle, Randy Crooks
on site conditions :

- 1910.120 does not apply to SLA backfill

- SLA material excavated, moved + covered

- Level D PPE

- Nike boots to keep mud off (optional)

- Will discuss N. dike extension if it is decided
to be done.

1100 Conversation with John Hoff (OHM site manager)

Tell him scope of 1910.120 does not apply to SLA
backfill. Hardhats, safety glasses, work uniform

should be worn for SLA Backfill (OHM operator
on site is John Chairmonte - he is appropriately dressed)

Tell J. Hoff to get medical + training certificates for
all personnel to do N. Dike Extension and get them
to me.

Joseph L. Sbarra

②

ARCO-Wellsville — SLA Backfill

H+S Log # 1

09/16/91

0730

1115-1130

Conversation with J Hoff and Mark Szwarcz (OHM Proj. Mgr) Tell them there is a $.1 \text{ mg}/\text{m}^3$ action level for dust leaving the site or visible emissions leaving the site. They think it's a low number, I agree but I tell them it's a NYDEC requirement.

0800-0

200

First trucks arrive with clay fill material.

Weather conditions: Hazy, hot ($\approx 85-90^\circ \text{F}$), breezy.

0925-
0940-

15-1230

15-minute Dust TWA - $.00 \text{ mg}/\text{m}^3$

Activities - unloading / dumping clay fill

dozers pushing fill and spreading it

1115-1130

2-1500

Meeting in Ebasco trailer with local EL officials.

We discussed planned field activities and H+S issues.

-1505

15-minute TWA Dust - $.00 \text{ mg}/\text{m}^3$

1135-1140

Activity - unload / dump fill, dozers pushing material

-1600

15-minute TWA Dust - $.00 \text{ mg}/\text{m}^3$

Activity - same as above

1245-1330

Leave jobsite for day

~~Joseph L. Starna~~

ARCO - WELLSVILLE MEETING

9/16/91

<u>NAME</u>	<u>REPRESENTING</u>	<u>PHONE #</u>
DAVID CHRISTENSEN	ARCO	213-486-3621
Judy Kossiewicz	A.R.C.	716-593-1531
Jim Cicirello	Wald. Police	593-5600
DICK NEELY	WHSV/ALFRED	593-3362
DANNY WONG	ARCO	213-486-8012
Sue Wolfer	OES	268-7658
Gus Weber	Jones Memorial	593-1100
JOE SBARRA	EBASCO	201-460-6301
GARY L Shiles	EBASCO	201-466-6089
JERRY BARRETT	SUNY / ALFRED	917-847-3078 607 587 4318

This meeting was conducted to inform local emergency response personnel of scheduled activities for the SLA Backfill and North Dike extension. G. Shiles, J. Sbarra presented the following information:

- Planned activities and location of work
- Safety & health, risks issues - SLA-clean, N. Dike - asoxic
- Emergency routes and access

W

PROJECT ENTRY PERMIT

11:20

DATE: 9-16-91 TIME IN: 7:20AM TIME OUT: 7:15AM

NAME: GARY C Stiles

COMPANY: EBASCO Constructors INC.

BADGE No: E-1

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

11:45

DATE: 9/16/91 TIME IN: 07:30 TIME OUT: 7:05

NAME: JOE SBARRA

COMPANY: EBASCO

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

PROJECT ENTRY PERMIT

DATE: 9-16-91 TIME IN: 0715 TIME OUT: 7:02pm

NAME: JW Hoff & J. Chiaramonte

COMPANY: CHN

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

P R O J E C T E N T R Y P E R M I T

DATE: 9-16-91 TIME IN: 8:30 am TIME OUT: ~~02:00~~ 3:00 pm

NAME: DANNY WONG

COMPANY: ARCO

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

P R O J E C T E N T R Y P E R M I T

DATE: 16 SEPT TIME IN: 8:00 AM TIME OUT: ~~12:00~~ 3:30 pm

NAME: DAVID CHRISTENSEN

COMPANY: ARCO

BADGE No: _____

Must Be Turned Into Security Within First 2hrs Of Next Work Day

SECURITY ACTIVITIES:

Attach Gate log & Security report

PROBLEMS ENCOUNTERED:

DESCRIPTION Civilian (Ken Lineman) seen walking south on
access road within the hot zone, attempting to reach
the dyke and head north.

SCHEDULE ACTIVITY NO. EFFECTED _____ TIME REPORTED 6:30 p.m.

REPORTED TO John W. Hoff, Joe Sbarra RESPONSE TIME 6:30 p.m.

RESOLUTION/RESPONSE Escorted individual to front gate. Issued
verbal warning to keep out of the site.

DESCRIPTION _____

SCHEDULE ACTIVITY NO. EFFECTED _____ TIME REPORTED _____

REPORTED TO _____ RESPONSE TIME _____

RESOLUTION/RESPONSE _____

DAY SUMMERY:

SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM

Date: 9/16/91

No./Name	Time In/Out		Time In/Out		Remarks
Gary Stiles	7:20/9:35	11:09/	*		Ebasco
David Christensen	8:00/11:02	11:30/12:15	1:04/3:34		ARCO
Danny Wong	8:30/12:15	1:04/3:24			ARCO
John Hoff	7:15/	*			OHM
J. Clairmont	7:15/	*			OHM
Mark Kravitz	11:01/12:21				OHM
Eugene Sosis	7:30/12:15	1:18/7:05			Ebasco
John Joe Shanna	7:30/12:37	12:55/	*		Ebasco
Jon Palmer	8:45/8:50	9:56/10:00	11:50/11:57	7:04/7:05	On-Site
Jerry Palmer	8:45/12:12	1:08/7:05			On-Site
Mike Hsieh	12:43/1:00				Ebasco
Doug Lingue	7:30/12:28	1:06/4:21			Myers
Randy Crooks	7:30/12:28	1:06/4:21			Land Survey
=====					
Charlie Baker	9:34/9:53	10:50/10:57	11:09/11:12	12:10/12:56	1:32/2:17
John Peakips	10:20/10:34				Deliver Equipment - Bakers
Mike Whalen	1:25/1:30				George & Suede Equip.
Dick Neely	2:00/3:05				WNFD
Fed. Ex.	12:07/12:12				
Jim Cicirella	12:22/3:05				WPD
Sue Wolfer	12:27/3:05				OES
Dale Baker	12:00/12:05	12:22/12:26	12:42/12:45	1:02/1:04	1:21/1:24
	1:41/1:43	2:00/2:02	2:17/12:21	12:36/12:38	2:56/3:00
	3:15/3:21	12:37/12:41	3:57/3:55	4:16/4:20	4:35/4:35
	4:54/4:56	5:11/5:14	5:30/5:32	5:51/5:54	6:10/6:12
Jon Perkins T-9	12:05/12:10	12:27/12:30	12:46/12:48	1:05/1:07	1:25/1:27
	1:46/1:49	2:02/2:05	12:24/12:26	12:46/12:48	3:05/3:09
	3:28/3:30	3:51/3:54	4:12/4:15	4:32/4:35	4:50/4:53
	5:10/5:12	5:28/5:30	5:47/5:50	6:08/6:10	
Russ Layton	12:05/12:08	12:27/12:29	12:45/12:47	1:04/1:06	1:24/1:26
	1:44/1:46	2:02/2:05	12:23/12:25	12:44/12:49	3:05/3:08
	3:27/3:30	3:50/3:52	4:10/4:14	4:30/4:33	4:50/4:52
	5:07/5:09	5:26/5:29	5:47/5:50	6:07/6:10	
Roy Cartwright T-8	12:05/12:08	12:31/12:37	12:55/12:58	1:17/1:20	1:38/1:43
	2:00/2:03	2:20/2:28	2:39/2:43	3:03/3:07	3:25/3:30
	3:46/3:50	4:10/4:12	4:39/4:43	4:59/5:02	5:19/5:21
	5:38/5:42				
Don Pye	12:23/12:24				Baker's
Bus Weber	12:30/3:05				James Men.
Judy Kociewicz	12:30/3:05				Amer. Red Cross
John Dixon	12:40/5:00				Baker's
Charlie Baker	12:38/6:06				

SECURITY - ARCO - WELLSVILLE
DAILY LOG FORM

Date: 9/16/91

No./Name	Time In/Out	Time In/Out	Remarks
Jerry Barrett	12:47/3:05		ASC. Public Safety
Adams Septic Service	2:50/3:00		
Dan Deming	3:55/4:01	4:06/4:25	Baker's
Jim Fisher	3:55/4:01	4:12/4:25	Baker's
J. Hitchcock	5:26/6:06		Baker's
Ken Leman	6:30/6:32		
Algie Livingston	6:55/		OHM
William Frank Bill	6:55/		OHM
Brian Crane	6:55/7:02		Crane towing

David Christensen	8:00 am /	3:30 pm	ARCO
Danny Wong	8:00 am /	3:00 pm	ARCO

9/16
(Mon)clear
88°FRained
at nite

- Arrived at site 2:00 am

Back

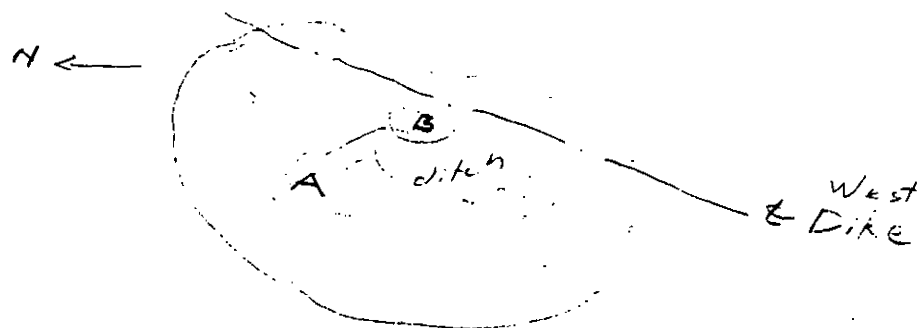
- Filling and compaction of previously excavated SLA begin after shaping and proof rolling. The soil, ^{back} called "compacted dike material" and is used for ^{back} filling is ^{approved} from the same source as the previous operation (to be confirmed)
- For the SLA backfill operation, OHM uses 4-16 yd dump trucks, 1 tractor dozer and 1 sheepfoot roller.
- OHM also performed a pre-construction survey (2-man crew)
- The operation appears effective. No soil compaction test yet.
- OHM intends to work from 7 am till dusk (about 7 p.m.)
- Left site 7:00 pm

9/17

(Tue)

clear
77°F

- Arrive at site 7:00 am
- The rain last night ($\frac{1}{2}$ ") caused ponding in SLA



(A and B as shown)

primarily in 2 locations. A pump was brought in to dewater ponded water in A. A ditch was created with the dozer to drain ponded water in B to A. Wet soil was dug up and aereater. Moisture dissipates rapidly under the strong sun.

- Empire testing conducted eight (8) in-place density and moisture tests by the Nuclear method. The

ARCO WELLSVILLE
CONSTRUCTION MANAGEMENT
Daily Report
September 15, 1991

Left home @ 9:45am, Traveled to Wellsville N.Y.
ARRIVED 6:30pm.

Checked site office area, OHM had received a Rayco Compactor and TD-5 Dozer.

I unlocked front gate and went offices, ARCO's office door was standing open but no sign of forced entry, upon closing door I found that it wouldn't stay closed, had to get screw driver and adjust the striker plate before the door would stay closed. Turned up Thermostats in both ARCO and EBASCO offices, everything else was OK.

Went motel (Long Vue) and checked in, Gene Sosis and Joe Sbarra had already checked in.

Quit work @ 9:45pm

Date 12/11/98Contractor EBASCO SERVICES INC. Site WELLSVILLE, N.Y.Project SINCLAIR REFINERY

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>MICHAEL HRYWNAK USCOE(NY)</u>	<u>NONE</u>	<u>28° LOW 58° HIGH</u>
		<u>CLEAR WITH SCATTERED</u>
		<u>CLOUDS.</u>

Contractor Personnel Type	#	Subcontractors (Name/Svcs.)	#	Major Equipment On-Site Operating (O)/Standby (S) O/S
<u>RES. ENGR</u>	<u>1</u>	<u>CANDORIE</u>	<u>4</u>	<u>DOZER (3) 2/0 1/5</u>
<u>ENGR/INSP.</u>	<u>1</u>			<u>BACKHOE (3) 2/0 1/5</u>
		<u>OHM</u>	<u>8</u>	<u>COMPACTOR (2) 2/5</u>
				<u>WATER TRUCK (1) 1/5</u>
				<u>HYDRO MULCHER (1) 1/5</u>
				<u>TRUCK LOADER (2) 2/0</u>
				<u>DECON TRAILER (1) 1/5</u>
				<u>HEAVY HAULER (1) 1/0</u>

Health and Safety Issues NONEQuality Control Issues NONEProblems and Concerns NONEResolution of Previous Problems/Concerns NONEComments NONE

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: Dec 1 1990 DAY: SAT HRS.WRK. 10 1/2 REPORT NO. 50

WEATHER INFORMATION:

TEMPERATURE: High 40 Low 30 WIND: Mph. Dir.

PRECIPITATION: HUMIDITY:

PERSONNEL: NON-MANUAL EBASCO C.M. OHM.P.S. J. Hoff

F.E/I P.M.

H&SO HOP D. Dubovich

C/SE "

P.M. "

HOP

"

"

ARCO P.M.

OTHERS SUB.

" SUPV. EMPS

USCOE/EPA SUB.

" SUPV. EMPS

VISITORS

MANUAL OHM Gen. Labor 3 EQUIP. OPER. 2

EQUIPMENT: OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
Dozer D58P <u>2</u>	<u>8 1/2</u>	<u> </u>	<u> </u>
Dozer D37P <u>2</u>	<u>8 1/2</u>	<u> </u>	<u> </u>
Back Hoe PC40D <u>9</u>	<u>1 1/2</u>	<u> </u>	<u> </u>
Back Hoe 215 <u>6</u>	<u>4 1/2</u>	<u> </u>	<u> </u>
Compactor SV <u>1</u>	<u>9 1/2</u>	<u> </u>	<u> </u>
Compactor SE <u>0</u>	<u>10 1/2</u>	<u> </u>	<u> </u>
Dump Trk. END <u>9</u>	<u>1 1/2</u>	<u> </u>	<u> </u>
Dump Trk. <u> </u>	<u> </u>	<u> </u>	<u> </u>
Others <u> </u>	<u> </u>	<u> </u>	<u> </u>
Chopper <u>8</u>	<u> </u>	<u>2 1/2</u>	<u> </u>
" <u> </u>	<u> </u>	<u> </u>	<u> </u>

MEETINGS:

PLAN OF DAY Dike Ext / cont

- 1) Cont EXCAV TOE TRENCH / INSTALL Geo Tec / Bedding / Rip Rip @ NORTH END
 - 2) Cont. Place Rip Rip in other locations set up
 - 3) Cont. Chip Brush, as per c/o
 - 4) check & ADD Rip Rip in "completed" Areas.
- SAFETY Burn out prevention, chipper / chain saw ops / Under water excav ops

SCHEDULED _____

UN-SCHEDULED _____

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION _____

SLA EXCAVATION: _____

WASTEPILE CONSTRUCTION: _____

DIKE EXTENSION Cont. EXCAV TOE TRENCH @ NORTH END,
Cont place Geo Tec / Bedding / Rip Rip.

OTHER: Cont Chip Brush, as per c/o

MATERIALS HANDLED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
CLEARING BRUSH	ACRE	_____	TESTFILL CONST.	CY	_____
			AGGREGATES	TON	_____
EXCAVATION			SETTLEMENT PLATES	EA	_____
			OBSERVATION WELLS	EA	_____
			GEOTEXTILE FAB	SY	_____
			BEDDING MATERIAL	TON	_____
GEOWASTE MATERIAL	CY	_____	GEOTEXTILE FAB	SY	_____
CONTAMINATED WASTE	CY	_____	CLAYMAX	SY	_____
CLEAN	CY	_____	GEOMEMBRANE	SY	_____
SLA	CY	_____	CLAY	CY	_____
TOE TRENCH	CY	_____	COMMON FILL	CY	_____
KEY TRENCH	CY	_____	RIPRAP	TON	_____
RIPRAP	TON	_____	MISC.	_____	_____

MATERIALS RECEIVED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
SETTLEMENT PLATES	EA	_____	GEOTEXTILE FAB	SY	_____
OBSERVATION WELLS	EA	_____	BEDDING MATERIAL	CY	_____
AGGREGATES	CY	_____	GEOMEMBRANE	SY	_____
CLAYMAX	CY	_____	EQUIP. FUEL&LUBE	GAL	_____
CLAY	_____	_____	MISC.	_____	_____
COMMON FILL	_____	_____	MISC.	_____	_____
RIPRAP	_____	_____	MISC.	_____	_____

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

_____**MATERIALS LEAVING SITE:**

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	_____	_____	_____
SANITARY WASTE	GALS	_____	_____	_____
DEBRI	TON	_____	_____	_____
USED OIL/LUBE.	GAL	_____	_____	_____
MISC.	_____	_____	_____	_____

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

_____ Attached report required by Contract document
_____ " " " " " "
_____ " " " " " "
_____ " " " " " "
_____ " " " " " "

COMMENTS _____

TECHNICAL CONCERNS/PROBLEMS:

TOE TRENCH Transition @ STA 22+31.59/Underwater ops
Acceptance of Installed Rp Rap
Rp Rap Supplier unable to keep up w/ demand.

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D" mod		
"D"	7	
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In: _____ Emps. Out: _____
Equipment: In: _____ Out: _____
Vendors Equipment: In: _____ Out: _____

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1 _____
2 _____

Accident/Breeches Report: _____

SINCLAIR REFINERY SITE
PARTIAL RIVER CHANNELIZATION PROJECT
WELLSVILLE, NEW YORK

RECEIVED

DEC 05 1990

DAILY REPORT

DATE: 12-1-90 DAY: Saturday HRS. WRK. 8 REPORT NO. EBASCO 990 ARCO

WEATHER INFORMATION:

TEMPERATURE: High _____ Low _____ WIND: Mph. _____ Dir. _____

PRECIPITATION: None HUMIDITY: _____ RIVER EL: AM _____ PM _____

PERSONNEL: NON MANUAL EBASCO.C.M. CANONIE.P.S.

F.E/I / R.E. /

H&SO P.E. /

C/SE OCM

P.M. H&SO

HOP P.M.

" P.SEC

" HOP

ARCO P.M. "

OTHERS CANONIE SUB.

SUPV. EMPS.

USCOE/EPA 2 SUB.

SUPV. EMPS.

VISITORS _____

MANUAL CANONIE GEN. Labor _____ Equip. Oper. _____
Truck Drivers _____ Others _____

EQUIPMENT: OPERATED (hrs) IDLE/STAND-BY DOWN MISC. INFO.

Cat 235 Released _____

" 963 Released _____

" D-6 Released _____

Hydroseeder Released _____

" 12G Released _____

(Sheep) Compactor Released _____

(Smooth) " Released _____

Canonie Wtr. Trk Released _____

Hertz Wtr. Trk Released _____

(E. Bank) Cat 235 Released _____

Komatsu R 200 2 _____

Generator / ^{Steam} Released _____

1/2 ton pickup Released _____

MEETINGS:

PLAN OF DAY Work on Punch List Items

SAFETY Good Construction Practices

SCHEDULED

UN-SCHEDULED

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SUPPORT AREA ① Disconnected and prepared for demobilization
(#064522) 12x60 office trailer. ② Capped exposed sewer pipes
③ cleaned up support area

WEST BANK ① Pulled Roadway Aggregate out from Rip Rap
3 men 2 hrs ea. total 6 hrs.

② Seeded & mulched slope where access road existed @ Sta 5+20
Also Seeded & mulched drainage swale from Sta 5+50 - 6+00

EAST BANK

RIVER (Any activity performed in water or gravel bar)

OTHER Repaired brakes & lights on hydroseeder
Cleaned / washed PC 200 Hoe

MATERIALS HANDLED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
CLEARING DEBRIS	ACRE	_____	KE TRENCH WST.	CY	_____
GRUBBING DEBRIS	ACRE	_____	COMMON FILL	CY	_____
TOPSOIL STRIPPING			PIT RUN FILL	CY	_____
NON-CONTNTD	CY	_____	CLAY FILL	CY	_____
CONTNTD	CY	_____	GEOTEXTILE FAB	SY	_____
EXCAVATION			BEDDING MATRL	CY	_____
WASTE MATRL.	CY	_____	RIP-RAP MATRL.	TON	_____
OIL STAIND	CY	_____	ROAD AGGRTS	SY	_____
CLEAN	CY	_____	SEED & MULCH	SY	_____
EAST BANK	CY	_____	MISC.	_____	_____
MISC.	CY	_____	"	_____	_____
TOE TRENCH EXCAV.			"	_____	_____
CLEAN MATRL.	CY	_____	"	_____	_____
WASTE MATRL.	CY	_____	"	_____	_____

MATERIALS RECEIVED:

TYPE	UNIT	EST.QTY.	TYPE	UNIT	EST.QTY.
TOPSOIL	CY	_____	GEOTEXTILE FAB	SY	_____
COMMON FILL	CY	_____	BEDDING MATRL.	CY	_____
PIT RUN FILL	CY	_____	RIP-RAP MATRL.	TON	_____
CLAY FILL	CY	_____	ROAD 'AGGRTS.	TON	_____
MISC.	_____	_____	MISC.	_____	_____

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATRL. _____

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPTD. BY
TRASH	LBS	_____	_____	_____
SANITARY WSTE.	GALS	_____	_____	_____
DEBRIS	TON	_____	_____	_____
USED OIL/LUBE.	GAL	_____	_____	_____
MISC.	_____	_____	_____	_____
"	_____	_____	_____	_____

EQUIPMENT LEAVING SITE:

DESCRIPTION	INSPECTED	DECON REQ.	APPROVED BY

#58 Pickup truck	Yes	No	_____
portable shower			
steam Genny/trailer			
one set of steps			

PAGE ____ OF ____

FIELD ENGINEERING ACTIVITIES: (surveyors)

QA/QC ACTIVITIES:

INSPECTIONS	LOCATION	TYPE	MATERIAL	RESULTS	ACCEPT	REJECT

1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

COMMENTS Completed Seeding & Mulching on
W. Bank.

E. Bank Seeding & Mulching from Sta 0+00 to Sta 8+00 will
be completed in the spring/summer of 1991

SAMPLING & ANALYSIS ACTIVITIES: NONE

REPORT NUMBERS

Attach report required by Contract Document

☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☐	☐

COMMENTS _____

TECHINICAL CONCERNS/PROBLEMS:

Date 12/3/90Contractor EBASCO SERVICES INC. Site WELLSVILLE, N.Y.
Project SINCLAIR REFINERY

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>NO REPS. ON</u>	<u>NONE</u>	<u>26° LOW 38° HIGH</u>
<u>SITE DUE TO</u>		<u>THREE - FOUR INCHES</u>
<u>BAD WEATHER</u>		<u>SNOW IN AM TURNING</u>
<u>(SNOW & SLUR)</u>		<u>TO RAIN IN PM</u>

Contractor Personnel Type	#	Subcontractors (Name/Svcs.)	#	Major Equipment On-Site Operating (O)/Standby (S) O/S
<u>ENGGR/INST.</u>	<u>1</u>	<u>CANONIK</u>	<u>2</u>	<u>DOZER (2) 2/0</u>
				<u>BACKHOE (3) 2/0 1/5</u>
		<u>OHM</u>	<u>8</u>	<u>COMPACTOR (2) 2/5</u>
				<u>WATER TRUCK (1) 1/5</u>
				<u>TRAX LOADER (2) 2/0</u>
				<u>DECON TRAILER (1) 1/5</u>
				<u>HEAVY HAULER (1) 1/0</u>

Health and Safety Issues NONEQuality Control Issues NONEProblems and Concerns NONEResolution of Previous Problems/Concerns NONEComments NONE

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: 12-3-90 DAY: mon HRS.WRK. 10 1/2 REPORT NO. 51

WEATHER INFORMATION:

TEMPERATURE: High _____ Low _____ WIND: Mph. _____ Dir. _____
 PRECIPITATION: Snow/Sleet/Rain HUMIDITY: 100%

PERSONNEL: NON-MANUAL EBASCO C.M. _____ OHM.P.S. Jw Hoff
 F.E/I _____ P.M. _____
 H&SO _____ HOP N. Dubovich
 C/SE _____ " _____
 P.M. _____ " _____
 HOP _____
 " _____
 " _____
 ARCO P.M. _____
 OTHERS _____ SUB. _____
 " _____ SUPV. _____ EMPS _____
 USCOE/EPA _____ SUB. _____
 " _____ SUPV. _____ EMPS _____
 VISITORS _____

MANUAL OHM Gen. Labor 3 EQUIP. OPER. 2

EQUIPMENT:	OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
Dozer D58P	<u>3</u>	<u>7 1/2</u>		
Dozer D37P	<u>4</u>	<u>6 1/2</u>		
Back Hoe 400	<u>9 1/2</u>	<u>1</u>		
Back Hoe 215	<u>8</u>	<u>2 1/2</u>		
Compactors V	<u>1 1/2</u>	<u>9</u>		
Compactors F	<u>8</u>	<u>10 1/2</u>		
Dump Trk. END	<u>9 1/2</u>	<u>1</u>		
Dump Trk.				
Others				
chipper	<u>7</u>	<u>3 1/2</u>		

MEETINGS:

PLAN OF DAY Dike Ext.

1) EXCAV TOE TRENCH TO completion, Install Geo Tec/
Bedding & Rip Rip

2) Cont place Rip Rip In Areas preped.

3) Cont chip downed Trees, As per C/O

4) Cont Rip Rip

SAFETY Snow/Foul weather, ops/Slips 'Trips' Falls/
Hypothermia

SCHEDULED _____

UN-SCHEDULED _____

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION _____

SLA EXCAVATION: _____

WASTEPILE CONSTRUCTION: _____

DIKE EXTENSION Cont TOE TRENCH EXCAV. Place Geo Tec/
Bedding / Rip Rip

Cont: Import Rip Rip

OTHER: Repair chipper / Cont chipping of downed Trees
TASK Complete

MATERIALS HANDLED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
CLEARING BRUSH	ACRE	_____	TESTFILL CONST.	CY	_____
			AGGREGATES	TON	_____
EXCAVATION			SETTLEMENT PLATES	EA	_____
			OBSERVATION WELLS	EA	_____
			GEOTEXTILE FAB	SY	✓
			BEDDING MATERIAL	TON	✓
GEOWASTE MATERIAL	CY	_____	GEOTEXTILE FAB	SY	_____
CONTAMINATED WASTE	CY	_____	CLAYMAX	SY	_____
CLEAN	CY	_____	GEOMEMBRANE	SY	_____
SLA	CY	_____	CLAY	CY	_____
TOE TRENCH	CY	✓	COMMON FILL	CY	_____
KEY TRENCH	CY	_____	RIPRAP	TON	_____
RIPRAP	TON	✓	MISC.	_____	_____

MATERIALS RECEIVED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
SETTLEMENT PLATES	EA	_____	GEOTEXTILE FAB	SY	500
OBSERVATION WELLS	EA	_____	BEDDING MATERIAL	CY	_____
AGGREGATES	CY	_____	GEOMEMBRANE	SY	_____
CLAYMAX	CY	_____	EQUIP. FUEL&LUBE	GAL	_____
CLAY	_____	_____	MISC.	_____	_____
COMMON FILL	_____	_____	MISC.	_____	_____
RIPRAP	Ton	239.41	MISC.	_____	_____

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	_____	_____	_____
SANITARY WASTE	GALS	_____	_____	_____
DEBRI	TON	_____	_____	_____
USED OIL/LUBE.	GAL	_____	_____	_____
MISC.	_____	_____	_____	_____

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

Attached report required by Contract document

" " " " " "
" " " " " "
" " " " " "
" " " " " "

COMMENTS

TECHINICAL CONCERNS/PROBLEMS:

Snow - Cold weather effects on Chg, other ops
Snow - Rain - Soil Conds. Poor
Snow - Rain - Trucks unable To Import For A Full day, supply
not ample to keep up w/ production.

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D" mod		
"D"	7	265
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In: _____ Emps. Out: _____
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: _____

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1 _____
2 _____

Accident/Breeches Report: _____

RECEIVED

DEC 05 1990

DATE: 12-3-90 DAY: Monday HRS. WRK. 8 REPORT NO. AC441180

TEMPERATURE: High _____ Low _____ WIND: Mph. _____ Dir. _____

PRECIPITATION: Snow/Rain HUMIDITY: 100% RIVER EL: AM PM

PERSONNEL: NON MANUAL EBASCO.C.M. CANONIE.P.S.

R.E. /

P.E. /

QCM _____

H&SO

P.M.

P. SEC

HOP

100

OTHERS

CANONIE SUB.

SUPV. _____ **EMPS.** _____

USCOE/EPA

SUB. _____

SUPV. _____ EMPS. _____

VISITORS - 1

MANUAL CANONIE GEN. Labor Equip. Oper.

Truck Drivers	Others
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100	100

[illegible]

PL 200 1

[illegible]

Country	Year	Population (millions)	Urban population (millions)	Urban population (%)	Population density (per sq km)	Urban population density (per sq km)	Population growth rate (%)	Urban population growth rate (%)	Population growth rate (%)	Urban population growth rate (%)	Population growth rate (%)	Urban population growth rate (%)
Algeria	1980	10.0	4.0	40.0	100	250	1.5	2.5	1.5	2.5	1.5	2.5
Algeria	1985	10.5	4.5	42.9	105	263	1.8	2.8	1.8	2.8	1.8	2.8
Algeria	1990	11.0	5.0	45.5	110	276	2.1	3.1	2.1	3.1	2.1	3.1
Algeria	1995	11.5	5.5	47.8	115	289	2.4	3.4	2.4	3.4	2.4	3.4
Algeria	2000	12.0	6.0	50.0	120	302	2.7	3.7	2.7	3.7	2.7	3.7
Algeria	2005	12.5	6.5	52.0	125	315	3.0	4.0	3.0	4.0	3.0	4.0
Algeria	2010	13.0	7.0	53.8	130	328	3.3	4.3	3.3	4.3	3.3	4.3
Algeria	2015	13.5	7.5	55.6	135	341	3.6	4.6	3.6	4.6	3.6	4.6
Algeria	2020	14.0	8.0	57.1	140	354	3.9	4.9	3.9	4.9	3.9	4.9
Algeria	2025	14.5	8.5	58.6	145	367	4.2	5.2	4.2	5.2	4.2	5.2
Algeria	2030	15.0	9.0	60.0	150	380	4.5	5.5	4.5	5.5	4.5	5.5
Algeria	2035	15.5	9.5	61.3	155	393	4.8	5.8	4.8	5.8	4.8	5.8
Algeria	2040	16.0	10.0	62.5	160	406	5.1	6.1	5.1	6.1	5.1	6.1
Algeria	2045	16.5	10.5	63.6	165	419	5.4	6.4	5.4	6.4	5.4	6.4
Algeria	2050	17.0	11.0	64.7	170	432	5.7	6.7	5.7	6.7	5.7	6.7
Algeria	2055	17.5	11.5	65.7	175	445	6.0	7.0	6.0	7.0	6.0	7.0
Algeria	2060	18.0	12.0	66.7	180	458	6.3	7.3	6.3	7.3	6.3	7.3
Algeria	2065	18.5	12.5	67.6	185	471	6.6	7.6	6.6	7.6	6.6	7.6
Algeria	2070	19.0	13.0	68.4	190	484	6.9	7.9	6.9	7.9	6.9	7.9
Algeria	2075	19.5	13.5	69.2	195	497	7.2	8.2	7.2	8.2	7.2	8.2
Algeria	2080	20.0	14.0	70.0	200	510	7.5	8.5	7.5	8.5	7.5	8.5
Algeria	2085	20.5	14.5	70.7	205	523	7.8	8.8	7.8	8.8	7.8	8.8
Algeria	2090	21.0	15.0	71.4	210	536	8.1	9.1	8.1	9.1	8.1	9.1
Algeria	2095	21.5	15.5	72.1	215	549	8.4	9.4	8.4	9.4	8.4	9.4
Algeria	2100	22.0	16.0	72.7	220	562	8.7	9.7	8.7	9.7	8.7	9.7
Algeria	2105	22.5	16.5	73.3	225	575	9.0	10.0	9.0	10.0	9.0	10.0
Algeria	2110	23.0	17.0	73.9	230	588	9.3	10.3	9.3	10.3	9.3	10.3
Algeria	2115	23.5	17.5	74.5	235	601	9.6	10.6	9.6	10.6	9.6	10.6
Algeria	2120	24.0	18.0	75.0	240	614	9.9	10.9	9.9	10.9	9.9	10.9
Algeria	2125	24.5	18.5	75.5	245	627	10.2	11.2	10.2	11.2	10.2	11.2
Algeria	2130	25.0	19.0	76.0	250	640	10.5	11.5	10.			

Country	Year	Population (millions)	Urban population (millions)	Urban population (%)
Algeria	1990	10.5	4.5	42.9
Algeria	2000	12.5	6.5	51.6
Algeria	2005	13.5	7.5	55.5
Algeria	2010	14.5	8.5	58.6
Algeria	2015	15.5	9.5	61.3
Algeria	2020	16.5	10.5	63.6
Algeria	2025	17.5	11.5	65.7
Algeria	2030	18.5	12.5	67.6
Algeria	2035	19.5	13.5	69.2
Algeria	2040	20.5	14.5	70.7
Algeria	2045	21.5	15.5	72.1
Algeria	2050	22.5	16.5	73.3
Algeria	2055	23.5	17.5	74.5
Algeria	2060	24.5	18.5	75.5
Algeria	2065	25.5	19.5	76.5
Algeria	2070	26.5	20.5	77.3
Algeria	2075	27.5	21.5	78.2
Algeria	2080	28.5	22.5	78.9
Algeria	2085	29.5	23.5	79.7
Algeria	2090	30.5	24.5	80.3
Algeria	2095	31.5	25.5	81.0
Algeria	2100	32.5	26.5	81.6
Algeria	2105	33.5	27.5	82.1
Algeria	2110	34.5	28.5	82.6
Algeria	2115	35.5	29.5	83.1
Algeria	2120	36.5	30.5	83.6
Algeria	2125	37.5	31.5	84.0
Algeria	2130	38.5	32.5	84.4
Algeria	2135	39.5	33.5	84.8
Algeria	2140	40.5	34.5	85.2
Algeria	2145	41.5	35.5	85.5
Algeria	2150	42.5	36.5	85.9
Algeria	2155	43.5	37.5	86.2
Algeria	2160	44.5	38.5	86.5
Algeria	2165	45.5	39.5	86.8
Algeria	2170	46.5	40.5	87.1
Algeria	2175	47.5	41.5	87.4
Algeria	2180	48.5	42.5	87.7
Algeria	2185	49.5	43.5	87.9
Algeria	2190	50.5	44.5	88.1
Algeria	2195	51.5	45.5	88.3
Algeria	2200	52.5	46.5	88.6
Algeria	2205	53.5	47.5	88.8
Algeria	2210	54.5	48.5	89.0
Algeria	2215	55.5	49.5	89.2
Algeria	2220	56.5	50.5	89.4
Algeria	2225	57.5	51.5	89.6
Algeria	2230	58.5	52.5	89.8
Algeria	2235	59.5	53.5	90.0
Algeria	2240	60.5	54.5	90.2
Algeria	2245	61.5	55.5	90.4
Algeria	2250	62.5	56.5	90.6
Algeria	2255	63.5	57.5	90.8
Algeria	2260	64.5	58.5	91.0
Algeria	2265	65.5	59.5	91.2
Algeria	2270	66.5	60.5	91.4
Algeria	2275	67.5	61.5	91.6
Algeria	2280	68.5	62.5	91.8
Algeria	2285	69.5	63.5	92.0
Algeria	2290	70.5	64.5	92.2
Algeria	2295	71.5	65.5	92.4
Algeria	2300	72.5	66.5	92.6
Algeria	2305	73.5	67.5	92.8
Algeria	2310	74.5	68.5	93.0
Algeria	2315	75.5	69.5	93.2
Algeria	2320	76.5	70.5	93.4
Algeria	2325	77.5	71.5	93.6
Algeria	2330	78.5	72.5	93.8
Algeria	2335	79.5	73.5	94.0
Algeria	2340	80.5	74.5	94.2
Algeria	2345	81.5	75.5	94.4
Algeria	2350	82.5	76.5	94.6

Country	Year	Population (millions)	Urban population (millions)	Urban population (%)
Algeria	1990	10.0	4.0	40.0
Algeria	2000	11.0	5.0	45.5
Algeria	2010	12.0	6.0	50.0
Algeria	2020	13.0	7.0	53.8
Algeria	2030	14.0	8.0	57.1
Algeria	2040	15.0	9.0	60.0
Algeria	2050	16.0	10.0	62.5
Algeria	2060	17.0	11.0	64.7
Algeria	2070	18.0	12.0	66.7
Algeria	2080	19.0	13.0	68.4
Algeria	2090	20.0	14.0	70.0
Algeria	2100	21.0	15.0	71.4
Algeria	2110	22.0	16.0	72.7
Algeria	2120	23.0	17.0	73.9
Algeria	2130	24.0	18.0	75.0
Algeria	2140	25.0	19.0	76.0
Algeria	2150	26.0	20.0	76.9
Algeria	2160	27.0	21.0	77.8
Algeria	2170	28.0	22.0	78.6
Algeria	2180	29.0	23.0	79.3
Algeria	2190	30.0	24.0	80.0
Algeria	2200	31.0	25.0	80.6
Algeria	2210	32.0	26.0	81.3
Algeria	2220	33.0	27.0	81.8
Algeria	2230	34.0	28.0	82.4
Algeria	2240	35.0	29.0	82.9
Algeria	2250	36.0	30.0	83.3
Algeria	2260	37.0	31.0	83.8
Algeria	2270	38.0	32.0	84.2
Algeria	2280	39.0	33.0	84.6
Algeria	2290	40.0	34.0	85.0
Algeria	2300	41.0	35.0	85.4
Algeria	2310	42.0	36.0	85.7
Algeria	2320	43.0	37.0	86.0
Algeria	2330	44.0	38.0	86.4
Algeria	2340	45.0	39.0	86.7
Algeria	2350	46.0	40.0	87.0
Algeria	2360	47.0	41.0	87.2
Algeria	2370	48.0	42.0	87.5
Algeria	2380	49.0	43.0	87.8
Algeria	2390	50.0	44.0	88.0
Algeria	2400	51.0	45.0	88.2
Algeria	2410	52.0	46.0	88.5
Algeria	2420	53.0	47.0	88.7
Algeria	2430	54.0	48.0	88.9
Algeria	2440	55.0	49.0	89.1
Algeria	2450	56.0	50.0	89.3
Algeria	2460	57.0	51.0	89.5
Algeria	2470	58.0	52.0	89.7
Algeria	2480	59.0	53.0	89.8
Algeria	2490	60.0	54.0	90.0
Algeria	2500	61.0	55.0	90.2
Algeria	2510	62.0	56.0	90.3
Algeria	2520	63.0	57.0	90.5
Algeria	2530	64.0	58.0	90.6
Algeria	2540	65.0	59.0	90.8
Algeria	2550	66.0	60.0	90.9
Algeria	2560	67.0	61.0	91.0
Algeria	2570	68.0	62.0	91.2
Algeria	2580	69.0	63.0	91.3
Algeria	2590	70.0	64.0	91.4
Algeria	2600	71.0	65.0	91.6
Algeria	2610	72.0	66.0	91.7
Algeria	2620	73.0	67.0	91.9
Algeria	2630	74.0	68.0	92.0
Algeria	2640	75.0	69.0	92.1
Algeria	2650	76.0	70.0	92.2
Algeria	2660	77.0	71.0	92.3
Algeria	2670	78.0	72.0	92.4
Algeria	2680	79.0	73.0	92.5
Algeria	2690	80.0	74.0	92.6
Algeria	2700	81.0	75.0	92.7

MEETINGS:

PLAN OF DAY _____

Remobilization

SAFETY _____

SCHEDULED _____

UN-SCHEDULED _____

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

SUPPORT AREA _____

*Winterized ^{water} pipes coming up out of ground for
trucks. (10 X 48 Trailer) serial No 198782 have taken over by Ebasco
(12 X 60 Trailer) Serial No 064522 Will be Remobilized from
site Wed. 12-5-90*

WEST BANK _____

*Seed & Match are stored in that Van on site and
will remain on site until the seeding is completed next
year (1991)*

EAST BANK _____

RIVER (Any activity performed in water or gravel bar) _____

OTHER _____

*Hector Water Truck will be Remobilized from
Wellsville Site by Friday 12-7-90*

MATERIALS HANDLED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
CLEARING DEBRIS	ACRE		KE TRENCH WST.	CY	
GRUBBING DEBRIS	ACRE		COMMON FILL	CY	
TOPSOIL STRIPPING			PIT RUN FILL	CY	
NON-CONTNTD	CY		CLAY FILL	CY	
CONTNTD	CY		GEOTEXTILE FAB	SY	
EXCAVATION			BEDDING MATRL	CY	
WASTE MATRL.	CY		RIP-RAP MATRL.	TON	
OIL STAIND	CY		ROAD AGGRTS	SY	
CLEAN	CY		SEED & MULCH	SY	
EAST BANK	CY		MISC.		
MISC.	CY				
TOE TRENCH EXCAV.					
CLEAN MATRL.	CY				
WASTE MATRL.	CY				

MATERIALS RECEIVED:

TYPE	UNIT	EST.QTY.	TYPE	UNIT	EST.QTY.
TOPSOIL	CY		GEOTEXTILE FAB	SY	
COMMON FILL	CY		BEDDING MATRL.	CY	
PIT RUN FILL	CY		RIP-RAP MATRL.	TON	
CLAY FILL	CY		ROAD 'AGGRTS.	TON	
MISC.			MISC.		

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATRL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPTD. BY
TRASH	LBS	1000	* Dumpster	
SANITARY WSTE.	GALS			
DEBRIS	TON	1/4	Taken by Charlie Baker	
USED OIL/LUBE.	GAL			
MISC.				

EQUIPMENT LEAVING SITE:

DESCRIPTION	INSPECTED	DECON REQ.	APPROVED BY
12-3-90 D-6 Power	Yes	No	[Signature]
12-4-90 PC 200 Hoe	Yes	No	[Signature]
12-3-90 Hydro Seeder	Yes	No	[Signature]

PAGE 1 OF 1

Date 12/4/90Contractor ERASCO SERVICES INC.Site WELLSVILLE, N.Y.Project SINCLAIR REFINERY

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>MICHAEL HRYWNAK USCOE (BUE)</u>	<u>NONE</u>	<u>30° LOW TO 50° HIGH</u>
		<u>OVERCAST WITH LIGHT</u>
		<u>SNOW FLURRIES</u>

Contractor Personnel Type	#	Subcontractors (Name/Svcs.)	#	Major Equipment On-Site Operating (O)/Standby (S) O/S
<u>RES. ENGR.</u>	<u>1</u>	<u>CANONIE (RIVER CHANNEL)</u>	<u>1</u>	<u>DOZER (2) 2/0</u>
<u>ENGR. / INSPE.</u>	<u>1</u>			<u>BACKHOE (2) 2/0</u>
		<u>OHM (DIKE EXT.)</u>	<u>7</u>	<u>COMPACTOR (2) 1/0 1/5</u>
				<u>WATER TRUCK (1) 1/5</u>
				<u>TRACK LOADER (2) 2/0</u>
				<u>HEAVY AXLE (1) 1/0</u>
				<u>DECON TRAILER (1) 1/5</u>

Health and Safety Issues

NONE

Quality Control Issues

NONE

Problems and Concerns

NONE

Resolution of Previous Problems/Concerns

NONE

Comments

NONE

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: 12-4-90 DAY: TUES HRS.WRK. 12 REPORT NO. 52

WEATHER INFORMATION:

TEMPERATURE: High _____ Low 28 WIND: Mph. _____ Dir. _____

PRECIPITATION: _____ HUMIDITY: _____

PERSONNEL: NON-MANUAL EBASCO C.M. _____ OHM.P.S. 1

F.E/I _____ P.M. _____

H&SO _____ HOP 1

C/SE _____ " _____

P.M. _____ " _____

HOP _____

" _____

" _____

ARCO P.M. _____

OTHERS _____ SUB. _____

" _____ SUPV. EMPS

USCOE/EPA _____ SUB. _____

" _____ SUPV. EMPS

VISITORS _____

MANUAL OHM Gen. Labor 3 EQUIP. OPER. 2

EQUIPMENT:	OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
Dozer D58P	<u>2 1/2</u>	<u>9 1/2</u>	_____	_____
Dozer D37P	<u>2</u>	<u>10</u>	_____	_____
Back Hoe 400	<u>11</u>	<u>1</u>	_____	_____
Back Hoe 25	<u>8</u>	<u>4</u>	_____	_____
Compactors	<u>0</u>	<u>12</u>	_____	_____
Compactors	<u>1</u>	<u>11</u>	_____	_____
Dump Trk. <u>END</u>	<u>11</u>	<u>1</u>	_____	_____
Dump Trk.	_____	_____	_____	_____
Others	_____	_____	_____	_____
"	_____	_____	_____	_____
"	_____	_____	_____	_____

MEETINGS:

PLAN OF DAY 1) Cont. Impact Rip Rip (8 Trucks)
2) Cont. Place Geo Tec / Bedding / Rip Rip
3) Prep for placement of Clay on dike to 100%.

SAFETY mud / Adverse Soil Conds Foul weather ops
After Dark ops.

SCHEDULED

UN-SCHEDULED

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION

SLA EXCAVATION:

WASTEPILE CONSTRUCTION:

DIKE EXTENSION Cont Impact Rip Rip. Cont Place
Geo Tec / Bedding / Rip Rip

OTHER:

MATERIALS HANDLED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
CLEARING BRUSH	ACRE	_____	TESTFILL CONST.	CY	_____
			AGGREGATES	TON	_____
EXCAVATION			SETTLEMENT PLATES	EA	_____
			OBSERVATION WELLS	EA	_____
			GEOTEXTILE FAB	SY	✓
			BEDDING MATERIAL	TON	✓
GEOWASTE MATERIAL	CY	_____	GEOTEXTILE FAB	SY	_____
CONTAMINATED WASTE	CY	_____	CLAYMAX	SY	_____
CLEAN	CY	_____	GEOMEMBRANE	SY	_____
SLA	CY	_____	CLAY	CY	_____
TOE TRENCH	CY	_____	COMMON FILL	CY	_____
KEY TRENCH	CY	_____	RIPRAP	TON	✓
RIPRAP	TON	✓	MISC.	_____	_____

MATERIALS RECEIVED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
SETTLEMENT PLATES	EA	_____	GEOTEXTILE FAB	SY	_____
OBSERVATION WELLS	EA	_____	BEDDING MATERIAL	CY	_____
AGGREGATES	CY	_____	GEOMEMBRANE	SY	_____
CLAYMAX	CY	_____	EQUIP. FUEL&LUBE	GAL	_____
CLAY	_____	_____	MISC.	_____	_____
COMMON FILL	_____	_____	MISC.	_____	_____
RIPRAP	ton	375	MISC.	_____	_____

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	_____	_____	_____
SANITARY WASTE	GALS	_____	_____	_____
DEBRI	TON	_____	_____	_____
USED OIL/LUBE.	GAL	_____	_____	_____
MISC.	_____	_____	_____	_____

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

Attached report required by Contract document

" " " " " "
" " " " " "
" " " " " "
" " " " " "

COMMENTS

TECHINICAL CONCERNS/PROBLEMS:

mud / Adverse Soil Condt
Foul weather / Snow - Rain?

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D" mod		
"D"	7	170
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In: _____ Emps. Out: _____
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: chipper & Kom. loader

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1 _____
2 _____

Accident/Breeches Report: _____

Date 12 15 190Contractor EBASCO SERVICES INC.Site WELLSVILLE, N.Y.Project SINCLAIR REFINERYAgencies
(Name/Agency)Visitors
(Name/Company)

Weather

DORAN STUBBS U.SCOE (DOR) NONELOW 28° HIGH 40° -
4" OF SNOW
1W AMContractor Personnel
Type

#

Subcontractors
(Name/Svcs.)

#

Major Equipment On-Site
Operating (O)/Standby (S) O/SQM1QHM7DOZER (2) 2/5RES. ENGA.1BACKHUR (2) 2/0ENGR/INSPT1CONTRACTOR (2) 2/5TRACK LOADER (2) 1/0 1/5DECON FACILITY (1) 1/5HEAVY HAULER (1) 1/0

Health and Safety Issues

NONE

Quality Control Issues

NONE

Problems and Concerns

NONE

Resolution of Previous Problems/Concerns

NONE

Comments

NONE

Contractor EBASCO SERVICES INC. Site WELLSVILLE, N.Y. Date 12/5/90

Sampling Activities Today	Quantity	Contractor	% Completed
NONE			

Major Activities Today (non-sampling)

CANONIE			99%*
OHM - PLACE RIP RAP			92%

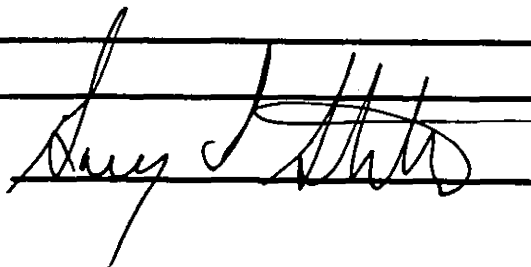
* DEMOBE COMPLETE - SEEDING/MULCHING EAST SIDE COMMON FILL AREA DE
Major Activities Planned (next 5 working days) FURRED TIL NEXT SPRING

OHM			92%
PLACE RIP RAP			88%
PLACE & COMPACT DIKE FILL			75%
COMPLETE TEST FILL			

Summary Report CANONIE WORK COMPLETE EXCEPT FOR SEED/MULCH
EAST SIDE COMMON FILL AREA WHICH WILL BE COMPLETED IN MAY
OR JUNE/JULY, 1991 AS WEATHER CONDITIONS PERMIT.

OHM - PLACED RIP RAP IN THE GULLCH AND ON DIKE SLOPE
BETWEEN STATIONS 24+20 AND 24+75.

Site Manager


Date 12-5-90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: Dec 5 1990 DAY: WED HRS.WRK. 12 REPORT NO. 53

WEATHER INFORMATION:

TEMPERATURE: High _____ Low 25 WIND: Mph. _____ Dir. _____
 PRECIPITATION: Snow HUMIDITY: 100%

PERSONNEL: NON-MANUAL EBASCO C.M. _____ OHM.P.S. 1
 F.E/I _____ P.M. _____
 H&SO _____ HOP 1
 C/SE _____ " _____
 P.M. _____ " _____
 HOP _____
 " _____
 " _____
 ARCO P.M. _____
 OTHERS _____ SUB. _____
 " _____ SUPV. EMPS
 USCOE/EPA _____ SUB. _____
 " _____ SUPV. EMPS
 VISITORS _____

MANUAL OHM Gen. Labor 3 EQUIP. OPER. 2

EQUIPMENT:	OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
DozerD58P	<u>2</u>	<u>10</u>		
DozerD37P	<u>1</u>	<u>11</u>		
Back Hoe400	<u>11</u>	<u>1</u>		
Back Hoe25	<u>4</u>	<u>8</u>		
CompactorsV	<u>1 1/2</u>	<u>10 1/2</u>		
CompactorSE	<u>0</u>	<u>12</u>		
Dump Trk.END	<u>11</u>	<u>1</u>		
Dump Trk.				
Others				
"				
"				

MEETINGS:

PLAN OF DAY Cont. Recv Rip Rip (10 TRUCKS)

Cont. Place Rip Rip on WS Slope/TOE Trench

SAFETY Snow/Foul weather ops, Hwy E&PT Safety,
After Dark ops

SCHEDULED _____

UN-SCHEDULED _____

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION _____

SLA EXCAVATION: _____

WASTEPILE CONSTRUCTION: _____

DIKE EXTENSION Cont. Place Rip Rip on w/s Slope & TOE
Prepare for Placement of Addtl. Clay matl on
Dike.

OTHER: _____

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE			TESTFILL CONST.	CY		
				AGGREGATES	TON		
EXCAVATION				SETTLEMENT PLATES	EA		
				OBSERVATION WELLS	EA		
				GEOTEXTILE FAB	SY		
				BEDDING MATERIAL	TON		
GEOWASTE MATERIAL	CY			GEOTEXTILE FAB	SY		
CONTAMINATED WASTE	CY			CLAYMAX	SY		
CLEAN	CY			GEOMEMBRANE	SY		
SLA	CY			CLAY	CY		
TOE TRENCH	CY			COMMON FILL	CY		
KEY TRENCH	CY			RIPRAP	TON		
RIPRAP	TON			MISC.			

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
SETTLEMENT PLATES	EA			GEOTEXTILE FAB	SY		
OBSERVATION WELLS	EA			BEDDING MATERIAL	CY		
AGGREGATES	CY			GEOMEMBRANE	SY		
CLAYMAX	CY			EQUIP. FUEL&LUBE	GAL		
CLAY				MISC.			
COMMON FILL				MISC.			
RIPRAP	TON			MISC.			

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS				
SANITARY WASTE	GALS				
DEBRI	TON				
USED OIL/LUBE.	GAL				
MISC.					

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

Attached report required by Contract document

Ø _____ " " " " " "
_____ " " " " " "
_____ " " " " " "
_____ " " " " " "

COMMENTS _____

TECHNICAL CONCERNS/PROBLEMS:

Inability To Secure Ample Rip Rap Trucking to keep up To
Production. Adverse Road Conds. Slow delivery Also.
Snow Fall hampers installation efforts/quality/safety.

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D"mod		
"D"	7	
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS:

Ø Personnel: Emps. In: _____ Emps. Out: _____
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: _____

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1 _____

2 _____

Accident/Breeches Report: _____

Date 12/07/90

Contractor EBASCO SERVICES INC. Site Wellsville N.Y.Project SINCLAIR Refinery

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>DORAN Stubbs USDOE-BUF</u>	<u>Ø</u>	<u>20° Low ~ 29° High</u>
		<u>cloudy.</u>

Contractor Personnel		Subcontractors		Major Equipment On-Site		
Type	#	(Name/Svcs.)	#	Operating (O)/Standby (S)	O/S	
<u>C.M</u>	<u>1</u>	<u>DHM</u>	<u>7</u>	<u>Dozer (2)</u>	<u>1/0</u>	<u>1/5</u>
<u>Res. Eng</u>	<u>1</u>			<u>TRACK END LOADER (1)</u>	<u>1/0</u>	<u>1/0</u>
				<u>TREAD END LOADER (1)</u>	<u>1/0</u>	<u>1/0</u>
				<u>HEAVEY HAULER (1)</u>	<u>1/0</u>	<u>1/0</u>
				<u>BACK HOE (2)</u>	<u>1/0</u>	<u>1/5</u>
				<u>COMPACTOR (2)</u>	<u>1/0</u>	<u>1/5</u>
				<u>DECON FACILITY (1)</u>	<u>1/5</u>	

Health and Safety Issues NONEQuality Control Issues NONEProblems and Concerns NONEResolution of Previous Problems/Concerns NONE

Comments

Contractor EBASCO SERVICES Site Wellsville N.Y. Date 12/07/90

Sampling Activities Today	Quantity	Contractor	% Completed
None			

Major Activities Today (non-sampling)

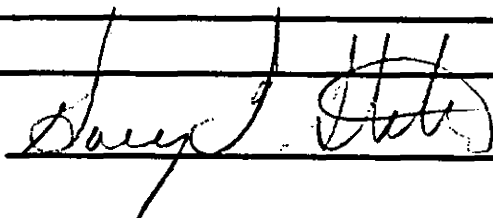
• Shape dike slopes	3000 SF	OHM	100%
• Place Geo Fabric & Bedding stone	2200 SF	OHM	92%

Major Activities Planned (next 5 working days)

- Complete placement of Slope protection
- Complete Test fill construction Phase III

Summary Report Continued placement and Anchoring Geo fabric, completed shaping of dike slopes. Cold temp. and frost in the ground is causing some problems.

Site Manager


Date 12-07-90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: 12/07/90 DAY: Fri HRS. WRK. 10 1/2 REPORT NO. 55

WEATHER INFORMATION:

TEMPERATURE: High Low WIND: Mph. Dir.
PRECIPITATION: 0 HUMIDITY:

PERSONNEL: NON-MANUAL EBASCO C.M. OHM.P.S. 1
F.E/I P.M.
H&SO HOP 1
C/SE "
P.M. "
HOP
"
"
ARCO P.M.
OTHERS SUB.
" SUPV. EMPS
USCOE/EPA SUB.
" SUPV. EMPS
VISITORS

MANUAL OHM Gen. Labor 3 EQUIP. OPER. 2

EQUIPMENT:	OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
Dozer D58P	<u>2</u>	<u>8 1/2</u>	<u> </u>	<u> </u>
Dozer D37P	<u>2</u>	<u>8 1/2</u>	<u> </u>	<u> </u>
Back Hoe 400	<u>9</u>	<u>1 1/2</u>	<u> </u>	<u> </u>
Back Hoe 215	<u>4</u>	<u>0 1/2</u>	<u> </u>	<u> </u>
Compactors	<u>1 1/2</u>	<u>9</u>	<u> </u>	<u> </u>
Compactors F	<u>2 1/2</u>	<u>8</u>	<u> </u>	<u> </u>
Dump Trk. 8rd	<u>3</u>	<u>7 1/2</u>	<u> </u>	<u> </u>
Dump Trk.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Others	<u> </u>	<u> </u>	<u> </u>	<u> </u>
wheel loader	<u>5</u>	<u>5 1/2</u>	<u> </u>	<u> </u>
"	<u> </u>	<u> </u>	<u> </u>	<u> </u>

MEETINGS:

PLAN OF DAY

Cut W/S Slope To Grade
Cut L/S Slope To Grade
Grade Top of Dike
Begin Geo Tec/Bedding Placement @ Top of Dike

SAFETY After DARK ops, ops underway
Hypothermia

SCHEDULED

UN-SCHEDULED

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION

SLA EXCAVATION:

WASTEPILE CONSTRUCTION:

DIKE EXTENSION Cut W/S Slope TO GRADE
Begin Completion of Geo Tec/Bedding
Begin cut L/S Slope TO GRADE

OTHER:

MATERIALS HANDLED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
CLEARING BRUSH	ACRE	_____	TESTFILL CONST.	CY	_____
			AGGREGATES	TON	_____
EXCAVATION			SETTLEMENT PLATES	EA	_____
			OBSERVATION WELLS	EA	_____
			GEOTEXTILE FAB	SY	_____✓
			BEDDING MATERIAL	TON	_____✓
GEOWASTE MATERIAL	CY	_____	GEOTEXTILE FAB	SY	_____
CONTAMINATED WASTE	CY	_____	CLAYMAX	SY	_____
CLEAN	CY	_____	GEOMEMBRANE	SY	_____
SLA	CY	_____	CLAY	CY	_____✓
TOE TRENCH	CY	_____	COMMON FILL	CY	_____
KEY TRENCH	CY	_____	RIPRAP	TON	_____
RIPRAP	TON	_____	MISC.	_____	_____

MATERIALS RECEIVED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
SETTLEMENT PLATES	EA	_____	GEOTEXTILE FAB	SY	_____
OBSERVATION WELLS	EA	_____	BEDDING MATERIAL	CY	_____
AGGREGATES	CY	_____	GEOMEMBRANE	SY	_____
CLAYMAX	CY	_____	EQUIP. FUEL&LUBE	GAL	_____
CLAY	_____	_____	MISC.	_____	_____
COMMON FILL	_____	_____	MISC.	_____	_____
RIPRAP	_____	_____	MISC.	_____	_____

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

_____**MATERIALS LEAVING SITE:**

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	_____	_____	_____
SANITARY WASTE	GALS	_____	_____	_____
DEBRI	TON	_____	_____	_____
USED OIL/LUBE.	GAL	_____	_____	_____
MISC.	_____	_____	_____	_____

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

_____ Attached report required by Contract document
_____ " " " " " "
_____ " " " " " "
_____ " " " " " "
_____ " " " " " "

COMMENTS

TECHINICAL CONCERNS/PROBLEMS:

*Weather effect on Remaining ops.
Soil Conds. Poor / Impeding progress*

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:	_____	_____
"D" mod	_____	_____
"D"	<u>7</u>	<u>55</u>
"C"	_____	_____
"B"	_____	_____
OTHER	_____	_____

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In: _____	Emps. Out: _____
Equipment: In: _____	Out: _____
Venders Equipment: In: _____	Out: <u>chipper</u>

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1 _____
2 _____
Accident/Breeches Report: _____

Date 12/16/96Contractor EBASCO SERVICES INC. Site Wellsville N.Y.Project SINCLAIR Refinery

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>Doran Stubbs USCOE-BUF</u>	<u>NONE</u>	<u>27° Low ~ 30° High</u>
<u>Michael Heyman USCOE-NY</u>		<u>Snow (5") overnight melted</u>
		<u>early morning ~ Cloudy with</u>
		<u>light winds -</u>

Contractor Personnel		Subcontractors		Major Equipment On-Site
Type	#	(Name/Svcs.)	#	Operating (O)/Standby (S) O/S
<u>C.M.</u>	<u>1</u>	<u>OHM</u>	<u>7</u>	<u>Dozer (2) 2/0</u>
<u>Res. Eng.</u>	<u>1</u>	<u>Baker/Babbitt</u>	<u>6</u>	<u>Backhoe (2) 2/0 1/2 day</u>
		<u>Empire Soil</u>	<u>1</u>	<u>Track loader (2) 2/5</u>
		<u>Doug Myer Sweeper</u>	<u>2</u>	<u>Compactor (2) 2/0 1/2 day</u>
				<u>Decon facility (1) 1/5</u>
				<u>Heavy Hauler (1) 1/5</u>
				<u>Dump Trucks (6) 6/0 1/2 day</u>

Health and Safety Issues NONE

Quality Control Issues Frozen ground to a depth of 4"±
was scarified and removed from fill surface - Prior to start
of clay placement ~ Imported clay had and Avg. Temp of 42°

Problems and Concerns NONEResolution of Previous Problems/Concerns NONEComments NONE

Contractor EBASCO SERVICES INC Site Wellsville N.Y. Date 12/6/90

Sampling Activities Today	Quantity	Contractor	% Completed
· COMPACTION Test ~ All PASSED w/range 97 to 99	<u>5</u>	<u>EMPIRE</u>	<u>100</u>
·			
·			
·			
·			

Major Activities Today (non-sampling)

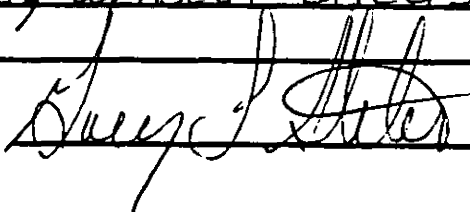
· Place Compacted Dike Fill (clay).	<u>682 CY Baker & OHM</u>	<u>100%</u>
· Shape outside slope.	<u>1200 SF OHM</u>	<u>50%</u>
· Lay Geotextile fabric.	<u>1500 SF OHM</u>	<u>30%</u>
·		
·		

Major Activities Planned (next 5 working days)

· Complete slope shaping.	<u>50%</u>
· Complete placement of Slope Protection.	
· * Geotextile fabric.	<u>25%</u>
· * Bedding Stone.	<u>25%</u>
· * Rip Rap.	<u>25%</u>
· Complete test fill construction.	<u>75%</u>
· Complete cover over Testfill & secondary waste piles.	<u>75%</u>

Summary Report Due to weather forecast of extremely low temp. I met with OHM supervisor on wed eve. and convinced him that it would be to his and ARCO's advantage if he would complete the weather sensitive work (clay placement). ~~that~~ Arrangements were made with the supplier and work started at 5:00 am and completed sealing of placed material at 4:30 pm. The balance of dike material (Geotextile, bedding stone, Rip Rap and Aggregate) can be placed in low temp. conditions, without effects on quality of work.

Site Manager


Date 12-6-90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: 12/06/90 DAY: THURS HRS.WRK. 11 REPORT NO. 54

WEATHER INFORMATION:

TEMPERATURE: High 35 Low 20 WIND: Mph. Ø Dir.
PRECIPITATION: Flurries HUMIDITY:

PERSONNEL: NON-MANUAL EBASCO C.M. OHM.P.S. 1
F.E/I P.M.
H&SO HOP 1
C/SE "
P.M. "
HOP
"
"
ARCO P.M.
OTHERS SUB.
" SUPV. EMPS
USCOE/EPA SUB.
" SUPV. EMPS
VISITORS

MANUAL OHM Gen. Labor 3 EQUIP. OPER. 2

EQUIPMENT: OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
Dozer D58P <u>9</u>	<u>2</u>	<u> </u>	<u> </u>
Dozer D37P <u>4</u>	<u>7</u>	<u> </u>	<u> </u>
Back Hoe 400 <u>2 1/2</u>	<u>8 1/2</u>	<u> </u>	<u> </u>
Back Hoe 255 <u>3</u>	<u>8</u>	<u> </u>	<u> </u>
Compactors 3V <u>3</u>	<u>8</u>	<u> </u>	<u> </u>
Compactors 3F <u>9</u>	<u>2</u>	<u> </u>	<u> </u>
Dump Trk. <u>END</u> <u>2</u>	<u>9</u>	<u> </u>	<u> </u>
Dump Trk. <u> </u>	<u> </u>	<u> </u>	<u> </u>
Others <u> </u>	<u> </u>	<u> </u>	<u> </u>
" <u> </u>	<u> </u>	<u> </u>	<u> </u>
" <u> </u>	<u> </u>	<u> </u>	<u> </u>

MEETINGS:

PLAN OF DAY STRIP DIKE OF UNSUITABLE MATH., PREP FOR
CLAY.
IMPACT/PLACE/COMPACT CLAY TO -6" SUB GRADE

SAFETY DARKNESS OPS, SUB CENTR OPS, TASKS AT HAND

SCHEDULED

UN-SCHEDULED

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION

SLA EXCAVATION:

WASTEPILE CONSTRUCTION:

DIKE EXTENSION STRIP UNSUITABLE MATH FROM TOP OF DIKE,
IMPACT/PLACE/COMPACT CLAY TO -6" SUB GRADE

OTHER:

MATERIALS HANDLED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
CLEARING BRUSH	ACRE	_____	TESTFILL CONST.	CY	_____
			AGGREGATES	TON	_____
EXCAVATION			SETTLEMENT PLATES	EA	_____
			OBSERVATION WELLS	EA	_____
			GEOTEXTILE FAB	SY	_____
			BEDDING MATERIAL	TON	_____
GEOWASTE MATERIAL	CY	_____	GEOTEXTILE FAB	SY	_____
CONTAMINATED WASTE	CY	_____	CLAYMAX	SY	_____
CLEAN	CY	_____	GEOMEMBRANE	SY	_____
SLA	CY	_____	CLAY	CY	865 ±
TOE TRENCH	CY	_____	COMMON FILL	CY	_____
KEY TRENCH	CY	_____	RIPRAP	TON	_____
RIPRAP	TON	_____	MISC.	_____	_____

MATERIALS RECEIVED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
SETTLEMENT PLATES	EA	_____	GEOTEXTILE FAB	SY	_____
OBSERVATION WELLS	EA	_____	BEDDING MATERIAL	CY	_____
AGGREGATES	CY	_____	GEOMEMBRANE	SY	_____
CLAYMAX	CY	_____	EQUIP. FUEL&LUBE	GAL	_____
CLAY	_____	_____	MISC.	_____	_____
COMMON FILL	_____	_____	MISC.	_____	_____
RIPRAP	Ton	272	MISC.	_____	_____

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

_____**MATERIALS LEAVING SITE:**

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	_____	_____	_____
SANITARY WASTE	GALS	_____	_____	_____
DEBRI	TON	_____	_____	_____
USED OIL/LUBE.	GAL	_____	_____	_____
MISC.	_____	_____	_____	_____

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

<u>Empire Soils</u>	Attached report required by Contract document
_____	" " " " " "
_____	" " " " " "
_____	" " " " " "
_____	" " " " " "

COMMENTS Compaction Testing (Spec +), Pull (4) Soil
Samples For GSA

TECHINICAL CONCERNS/PROBLEMS:

Stepping of Unsuitable
Compaction of Imported Fill

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:	_____	_____
"D" mod	_____	_____
"D"	<u>7</u>	<u>± 65</u>
"C"	_____	_____
"B"	_____	_____
OTHER	_____	_____

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In: _____	Emps. Out: _____
Equipment: In: _____	Out: _____
Venders Equipment: In: _____	Out: _____

ACCIDENTS/BREECHES OF PROCEDURES:

No.	Time	Location	Emp.No./Equip.No.	Injury/damage	Response

1 _____
2 _____

Accident/Breeches Report: _____

Date 12 108 190

Contractor EBASCO SERVICES INC. Site Wellsville N.Y.
 Project SINCLAIR Refinery

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>NONE</u>	<u>NONE</u>	<u>28° Low ~ 36° High</u>
		<u>Clear with light breeze</u>

Contractor Personnel Type	#	Subcontractors (Name/Svcs.)	#	Major Equipment On-Site Operating (O)/Standby (S) O/S
<u>C.M.</u>	<u>1</u>	<u>OHM</u>	<u>5</u>	<u>DOZER (A) 2/0</u>
<u>Res. Eng</u>	<u>1</u>			<u>END-LOADER (TRACK) (1) 1/0</u>
				<u>END-LOADER (TIRED) (1) 1/0</u>
				<u>BACKHOE (2) 1/0 1/5</u>
				<u>COMPACTOR (2) 1/0 1/5</u>
				<u>HEAVY HAULER (1) 1/5</u>
				<u>WATER TRK (1) 1/5</u>
				<u>DECON FACILITY (1) 1/5</u>

Health and Safety Issues NONE

Quality Control Issues Contractor (OHM) was depositing wet spoil (6cy) from dike slope into the SCA excavation. Activity was stopped.

Problems and Concerns Contractor (OHM) is having problems with estimating the quantity of material required to complete project. Has ran out of Riprap and Bedding stone on 2 occasions.

Resolution of Previous Problems/Concerns I. met with contractor (OHM) Supt. and informed him of the problem this caused and gave him some info on rule of thumb est. of Qty's.

Comments NONE

Contractor EBASCO SERVICES INC. Site Wellsville N.Y. Date 12/08/90

Sampling Activities Today	Quantity	Contractor	% Completed
• None			
•			
•			
•			
•			
•			

Major Activities Today (non-sampling)

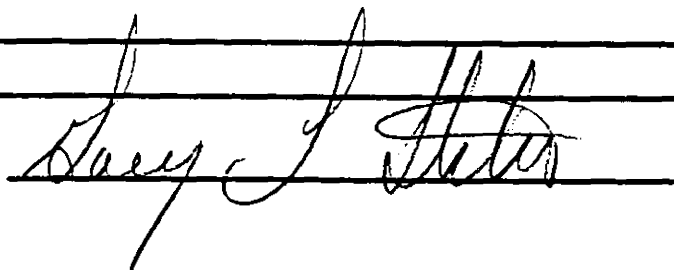
• Complete shaping of dike slope.	3,000 SF	OHM	100%
• Complete Geo Fabric & Bedding stone.	2,200 SF	OHM	100%
• Complete Rip Rap placement.	3,800 SF	OHM	80%
•			
•			

Major Activities Planned (next 5 working days)

• Complete Dike extension.			95%
• Complete Test fill construction.			75%
• Complete waste pile covers.			80%
•			
•			

Summary Report Completed slope shaping and laying of Geotextile fabric, Bedding stone. Would have completed Riprap but ran out of material at 2:30 pm ~ Have made arrangements to have material on-site by 10:00am Monday.

Site Manager



Date

12-08-90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: Dec 8 1990 DAY: SAT HRS.WRK. 11 1/2 REPORT NO. 56

WEATHER INFORMATION:

TEMPERATURE: High _____ Low 20 WIND: Mph. _____ Dir. _____

PRECIPITATION: _____ HUMIDITY: _____

PERSONNEL: NON-MANUAL EBASCO C.M. _____ OHM.P.S. 1
 F.E/I _____ P.M. _____
 H&SO _____ HOP _____
 C/SE _____ " _____
 P.M. _____ " _____
 HOP _____
 " _____
 " _____
 ARCO P.M. _____
 OTHERS _____ SUB. _____
 " _____ SUPV. EMPS
 USCOE/EPA _____ SUB. _____
 " _____ SUPV. EMPS
 VISITORS _____

MANUAL OHM Gen. Labor 3 EQUIP. OPER. 2

EQUIPMENT:	OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
Dozer D58P	<u>2</u>	<u>9 1/2</u>		
Dozer D37P	<u>4</u>	<u>7 1/2</u>		
Back Hoe 400	<u>10 1/2</u>	<u>1</u>		
Back Hoe 215	<u>3</u>	<u>8 1/2</u>		
Compactor SV	<u>2</u>	<u>9 1/2</u>		
Compactor SF	<u>1</u>	<u>10 1/2</u>		
Dump Trk. End	<u>0</u>	<u>11 1/2</u>		
Dump Trk.				
Others <u>lowe</u>	<u>10 1/2</u>	<u>1</u>		
"				
"				

MEETINGS:

PLAN OF DAY Cont. Install Geo Tec/Bedding @ Top of Dike
Begin Installing Rip Rip @ Top of Dike

SAFETY mud/Frost / Cold weather ops
changing Soil Conds. Hypothermia

SCHEDULED _____

UN-SCHEDULED _____

(Reference and attach additional pages if necessary)

ACTIVITIES:(Reference schedule activity number that relates)
TESTFILL CONSTRUCTION _____

SLA EXCAVATION: _____

WASTEPILE CONSTRUCTION: _____

DIKE EXTENSION Cont. Installing Geo Tec/Bedding @ Top of Dike
Begin Installing Rip Rip @ W/S Top of slope

OTHER: _____

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE	_____		TESTFILL CONST.	CY	_____	
				AGGREGATES	TON	_____	
EXCAVATION				SETTLEMENT PLATES	EA	_____	
				OBSERVATION WELLS	EA	_____	
				GEOTEXTILE FAB	SY	_____	✓
				BEDDING MATERIAL	TON	_____	✓
GEOWASTE MATERIAL	CY	_____		GEOTEXTILE FAB	SY	_____	
CONTAMINATED WASTE	CY	_____		CLAYMAX	SY	_____	
CLEAN	CY	_____		GEOMEMBRANE	SY	_____	
SLA	CY	_____		CLAY	CY	_____	
TOE TRENCH	CY	_____		COMMON FILL	CY	_____	
KEY TRENCH	CY	_____		RIPRAP	TON	_____	
RIPRAP	TON	_____	✓	MISC.	_____	_____	

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
SETTLEMENT PLATES	EA	_____		GEOTEXTILE FAB	SY	_____	
OBSERVATION WELLS	EA	_____		BEDDING MATERIAL	CY	_____	
AGGREGATES	CY	_____		GEOMEMBRANE	SY	_____	
CLAYMAX	CY	_____		EQUIP. FUEL&LUBE	GAL	_____	
CLAY	_____	_____		MISC.	_____	_____	
COMMON FILL	_____	_____		MISC.	_____	_____	
RIPRAP	_____	_____		MISC.	_____	_____	

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	_____		_____	_____
SANITARY WASTE	GALS	_____		_____	_____
DEBRI	TON	_____		_____	_____
USED OIL/LUBE.	GAL	_____		_____	_____
MISC.	_____	_____		_____	_____

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____

REPORT NUMBERS

	00	00	00	00	00	00
	00	00	00	00	00	00
	00	00	00	00	00	00
	00	00	00	00	00	00

COMMENTS

* Will be well over EST Tonnage to complete Rip Rip

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D"mod		
"D"	6	607
"C"		
"B"		
OTHER		

Personnel: Emps. In: _____ Emps. Out: _____
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: _____

No.	Time	Location	Emp.No./Equip.No.	Injury/damage	Response
1	11:00 AM	10000	10000	10000	10000
2	11:00 AM	10000	10000	10000	10000
3	11:00 AM	10000	10000	10000	10000
4	11:00 AM	10000	10000	10000	10000
5	11:00 AM	10000	10000	10000	10000
6	11:00 AM	10000	10000	10000	10000
7	11:00 AM	10000	10000	10000	10000
8	11:00 AM	10000	10000	10000	10000
9	11:00 AM	10000	10000	10000	10000
10	11:00 AM	10000	10000	10000	10000
11	11:00 AM	10000	10000	10000	10000
12	11:00 AM	10000	10000	10000	10000
13	11:00 AM	10000	10000	10000	10000
14	11:00 AM	10000	10000	10000	10000
15	11:00 AM	10000	10000	10000	10000
16	11:00 AM	10000	10000	10000	10000
17	11:00 AM	10000	10000	10000	10000
18	11:00 AM	10000	10000	10000	10000
19	11:00 AM	10000	10000	10000	10000
20	11:00 AM	10000	10000	10000	10000
21	11:00 AM	10000	10000	10000	10000
22	11:00 AM	10000	10000	10000	10000
23	11:00 AM	10000	10000	10000	10000
24	11:00 AM	10000	10000	10000	10000
25	11:00 AM	10000	10000	10000	10000
26	11:00 AM	10000	10000	10000	10000
27	11:00 AM	10000	10000	10000	10000
28	11:00 AM	10000	10000	10000	10000
29	11:00 AM	10000	10000	10000	10000
30	11:00 AM	10000	10000	10000	10000
31	11:00 AM	10000	10000	10000	10000
32	11:00 AM	10000	10000	10000	10000
33	11:00 AM	10000	10000	10000	10000
34	11:00 AM	10000	10000	10000	10000
35	11:00 AM	10000	10000	10000	10000
36	11:00 AM	10000	10000	10000	10000
37	11:00 AM	10000	10000	10000	10000
38	11:00 AM	10000	10000	10000	10000
39	11:00 AM	10000	10000	10000	10000
40	11:00 AM	10000	10000	10000	10000
41	11:00 AM	10000	10000	10000	10000
42	11:00 AM	10000	10000	10000	10000
43	11:00 AM	10000	10000	10000	10000
44	11:00 AM	10000	10000	10000	10000
45	11:00 AM	10000	10000	10000	10000
46	11:00 AM	10000	10000	10000	10000
47	11:00 AM	10000	10000	10000	10000
48	11:00 AM	10000	10000	10000	10000
49	11:00 AM	10000	10000	10000	10000
50	11:00 AM	10000	10000	10000	10000
51	11:00 AM	10000	10000	10000	10000
52	11:00 AM	10000	10000	10000	10000
53	11:00 AM	10000	10000	10000	10000
54	11:00 AM	10000	10000	10000	10000
55	11:00 AM	10000	10000	10000	10000
56	11:00 AM	10000	10000	10000	10000
57	11:00 AM	10000	10000	10000	1

1 _____
2 _____
Accident/Breeches Report: _____

Date 12/10/90Contractor EBASCO SERVICES INC. Site Wellsville, N.Y.Project SINCLAIR Refinery SiteAgencies
(Name/Agency)Visitors
(Name/Company)

Weather

Doran Stubbs USDOE-BUEMichial Heynyak USDOE-NYe26° Low - 34° Highcloudy with 15 to 20 mph
winds.Contractor Personnel
Type

#

Subcontractors
(Name/Svcs.)

#

Major Equipment On-Site
Operating (O)/Standby (S) O/SC.M.1OHM6Dozer (2) 1/0BACK HOE (2) 2/0COMPACTOR (2) 1/0END LOADER - T (1) 1/0END LOADER - R (1) 1/0HEAVY HAULER (1) 1/0DECON FACILITY (1) 1/0WATER TRUCK (1) 1/0

Health and Safety Issues

None

Quality Control Issues

None

Problems and Concerns

None

Resolution of Previous Problems/Concerns

None

Comments

None

ARCO Waste Site Daily Activity Report

Page 2

Contractor

EBASCO SERVICES INC Site Wettsville NYDate 12/10/90

Sampling Activities Today

None

Quantity

Contractor

%

Completed

Major Activities Today (non-sampling)

- Complete Rip Rap.
- Continue shaping inside dike slope

3,800 SF

OHM

100%

5,200 SF

IL

40%

Major Activities Planned (next 5 working days)

- Complete Roadway Aggregate.
- Complete Pre-final inspection Punch list items.
- Complete Test fill construction.
- Complete waste pile cover.

0

60%

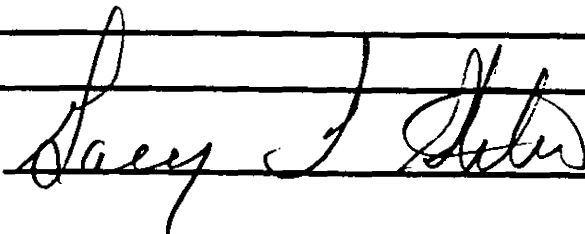
75%

80%

Summary Report

Completed placement of Rip Rap on Dike
Extensions outer slope, started shaping inside slope
and fine grading area.

Site Manager



Date

12-10-90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: Dec 10 1990 DAY: mon HRS.WRK. 11 1/2 REPORT NO. 57

WEATHER INFORMATION:

TEMPERATURE: High 40 Low 20 WIND: Mph. Dir.

PRECIPITATION: HUMIDITY:

PERSONNEL: NON-MANUAL EBASCO C.M. OHM.P.S. 1
F.E/I P.M.
H&SO HOP
C/SE "
P.M. "
HOP
"
"
ARCO P.M.
OTHERS SUB.
" SUPV. EMPS
USCOE/EPA SUB.
" SUPV. EMPS
VISITORS

MANUAL OHM Gen. Labor 3 EQUIP. OPER. 2

EQUIPMENT:	OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
DozerD58P	<u>0</u>	<u>11 1/2</u>	<u> </u>	<u> </u>
DozerD37P	<u>3</u>	<u>8 1/2</u>	<u> </u>	<u> </u>
Back Hoe400	<u>10</u>	<u>1 1/2</u>	<u> </u>	<u> </u>
Back Hoe215	<u>4</u>	<u>7 1/2</u>	<u> </u>	<u> </u>
CompactorsJ	<u>2</u>	<u>9 1/2</u>	<u> </u>	<u> </u>
CompactorsF	<u>0</u>	<u>11 1/2</u>	<u> </u>	<u> </u>
Dump Trk.END	<u>4</u>	<u>7 1/2</u>	<u> </u>	<u> </u>
Dump Trk.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Others	<u> </u>	<u> </u>	<u> </u>	<u> </u>
wheel loader	<u>10</u>	<u>1 1/2</u>	<u> </u>	<u> </u>
Track loader	<u>10</u>	<u>1 1/2</u>	<u> </u>	<u> </u>

MEETINGS:

PLAN OF DAY Complete Rip Rip Import ops
Complete Install Rip Rip Top of W/S Slope
Begin cut to 4/5 Slope TO GRADE
Place & Grade Top of Dike

SAFETY After Dark ops, Cold Am/WARM Noon/Cold PM
TASKS @ HAND

SCHEDULED _____

UN-SCHEDULED _____

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION _____

SLA EXCAVATION: _____

WASTEPILE CONSTRUCTION: _____

DIKE EXTENSION Import Rip Rip
Cont. Place Rip Rip on W/S Slope

OTHER: _____

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE			TESTFILL CONST.	CY		
				AGGREGATES	TON		
EXCAVATION				SETTLEMENT PLATES	EA		
				OBSERVATION WELLS	EA		
				GEOTEXTILE FAB	SY		✓
				BEDDING MATERIAL	TON		✓
GEOWASTE MATERIAL	CY			GEOTEXTILE FAB	SY		
CONTAMINATED WASTE	CY			CLAYMAX	SY		
CLEAN	CY			GEOMEMBRANE	SY		
SLA	CY			CLAY	CY		
TOE TRENCH	CY			COMMON FILL	CY		
KEY TRENCH	CY			RIPRAP	TON		✓
RIPRAP	TON		✓	MISC.			

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
SETTLEMENT PLATES	EA			GEOTEXTILE FAB	SY		
OBSERVATION WELLS	EA			BEDDING MATERIAL	CY		
AGGREGATES	CY			GEOMEMBRANE	SY		
CLAYMAX	CY			EQUIP. FUEL&LUBE	GAL		
CLAY				MISC.			
COMMON FILL				MISC.			
RIPRAP				MISC.			

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS				
SANITARY WASTE	GALS				
DEBRI	TON				
USED OIL/LUBE.	GAL				
MISC.					

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

Attached report required by Contract document

_____"_____"_____"_____"_____"_____"
_____"_____"_____"_____"_____"_____"
_____"_____"_____"_____"_____"_____"
_____"_____"_____"_____"_____"_____"

COMMENTS

TECHNICAL CONCERNS/PROBLEMS:

Rip Rip Tonnage well over EST. MUST Import more!

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D" mod		
"D"	6	65±
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In: _____ Emps. Out: _____
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: _____

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1 _____
2 _____

Accident/Breeches Report: _____

Date 12/11/90Contractor EBASCO SERVICES INC. Site Wellsville, NY.Project SINCLAIR Refinery

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
DORAN Stubbs - USDOE-BUF	<u> </u>	17° Low 23° High
DAVE BINGERT - " - "	<u> </u>	Clear
FRED BAGTERON - " - "	<u> </u>	
MICHAEL HEUWACK - USDOE-NY	<u> </u>	

Contractor Personnel Type	#	Subcontractors (Name/Svcs.)	#	Major Equipment On-Site Operating (O)/Standby (S) O/S
P.M. Tom Grange	1	OHM	7	DOZER (8) 2/0
C.M.	4			BACKHOE (2) 2/0
				COMPACTOR (2) 1/0 1/5
				HEAVY HAULER (1) 1/5
				END LOADER (1) 1/5
				END LOADER (3) (1) 1/0
				WATER TRUCK (1) 1/5
				DECON FACILITY (1) 1/5

Health and Safety Issues

None

Quality Control Issues

None

Problems and Concerns

None

Resolution of Previous Problems/Concerns

None

Comments

None

Contractor

EBASCO SERVICES INCSite Wellsville, N.Y.Date 12/11/90

Sampling Activities Today

Quantity	Contractor	% Completed

None

Major Activities Today (non-sampling)

- Shape inside slope of Dike.
- Place Roadway Aggregate
- Construct testfill—Place 18" on section 4

500 LF	OHM	75%
500 LF	"	80%
450 C.Y.	"	60%

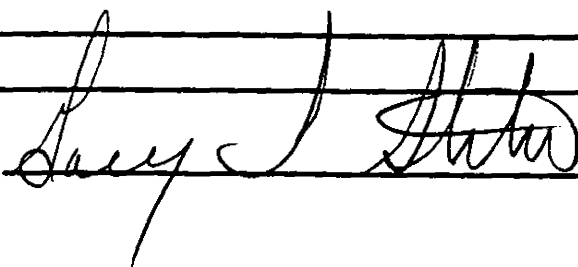
Major Activities Planned (next 5 working days)

- Complete Dike extension punchlist:
- Complete Testfill construction.
- Cover waste Piles.

60%
75%
80%

Summary Report Conducted the Pre-final inspection of the River Channelization Dike Extension. No new items were found to Add to the Punchlist of 8 items, 5 of the 8 were completed today with the remaining 3 sch for completion on Thursday,

Site Manager



Date

12-11-90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: Dec 11 1990 DAY: TUES HRS. WRK. _____ REPORT NO. 58

WEATHER INFORMATION:

TEMPERATURE: High _____ Low 15⁺ WIND: Mph. _____ Dir. _____

PRECIPITATION: _____ HUMIDITY: _____

PERSONNEL: NON-MANUAL EBASCO C.M. _____ OHM.P.S. 1
F.E/I _____ P.M. _____
H&SO _____ HOP _____
C/SE _____ " _____
P.M. _____ " _____
HOP _____
" _____
" _____
ARCO P.M. _____
OTHERS _____ SUB. _____
" _____ SUPV. EMPS
USCOE/EPA _____ SUB. _____
" _____ SUPV. EMPS
VISITORS _____

MANUAL OHM Gen. Labor 3 EQUIP. OPER. 2

EQUIPMENT: OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC. INFO.
Dozer <u>D58P</u>	_____	_____	_____
Dozer <u>D37P</u>	_____	_____	_____
Back Hoe <u>400</u>	_____	_____	_____
Back Hoe <u>21</u>	_____	_____	_____
Compactor <u>SV</u>	_____	_____	_____
Compactor <u>F</u>	_____	_____	_____
Dump Trk. <u>500</u>	_____	_____	_____
Dump Trk. _____	_____	_____	_____
Others _____	_____	_____	_____
Track <u>LDR</u>	_____	_____	_____
Wheel <u>LDR</u>	_____	_____	_____

MEETINGS:

PLAN OF DAY Complete (?) Import of Rip Rip
Complete Place of Rip Rip TOP of w/s Slope
Cut ~~at~~ 4/5 Slope to GRADE
Cut Top of Dike to sub Grade
misc. Punch List items
1300 HRS / meeting on site
SAFETY Cold weather ops / Hypothermia
Darkness ops / TASKS @ HAND

SCHEDULED

UN-SCHEDULED

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

TESTFILL CONSTRUCTION Begin Place 18" Fill on NORTH
TEST FILL AREA.
ASSIST in Import of Blend Stone For C/O USE

SLA EXCAVATION:

WASTEPILE CONSTRUCTION:

DIKE EXTENSION Cont. Import Rip Rip
Contpl. Place Rip Rip.
Begin Cut 4/5 Slope & Top of Dike TO GRADE
A

OTHER: Load (1) Truck Load of Logs For Removal
MISC PUNCH LIST ITEMS.

MATERIALS HANDLED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
CLEARING BRUSH	ACRE	_____	TESTFILL CONST.	CY	_____
			AGGREGATES	TON	_____
EXCAVATION			SETTLEMENT PLATES	EA	_____
			OBSERVATION WELLS	EA	_____
			GEOTEXTILE FAB	SY	_____
			BEDDING MATERIAL	TON	_____
GEOWASTE MATERIAL	CY	_____	GEOTEXTILE FAB	SY	_____
CONTAMINATED WASTE	CY	_____	CLAYMAX	SY	_____
CLEAN	CY	_____	GEOMEMBRANE	SY	_____
SLA	CY	_____	CLAY	CY	✓
TOE TRENCH	CY	_____	COMMON FILL	CY	_____
KEY TRENCH	CY	_____	RIPRAP	TON	_____
RIPRAP	TON	✓	MISC.	_____	_____

MATERIALS RECEIVED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
SETTLEMENT PLATES	EA	_____	GEOTEXTILE FAB	SY	_____
OBSERVATION WELLS	EA	_____	BEDDING MATERIAL	CY	_____
AGGREGATES	CY	_____	GEOMEMBRANE	SY	_____
CLAYMAX	CY	_____	EQUIP. FUEL&LUBE	GAL	_____
CLAY	_____	_____	MISC. Road Stone	TON	✓
COMMON FILL	_____	_____	MISC.	_____	_____
RIPRAP	_____	✓	MISC.	_____	_____

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	_____	_____	_____
○ SANITARY WASTE	GALS	_____	_____	_____
DEBRI	TON	_____	_____	_____
USED OIL/LUBE.	GAL	_____	_____	_____
MISC.	_____	_____	_____	_____

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
○ _____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

Attached report required by Contract document

COMMENTS

TECHINICAL CONCERNS/PROBLEMS:

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:	_____	_____
"D"mod	_____	_____
"D"	6	_____
"C"	_____	_____
"B"	_____	_____
OTHER	_____	_____

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In: _____ Emps. Out: _____
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: _____

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1 _____
2 _____

Accident/Breeches Report: _____

ARCO Waste Site Daily Activity Report

Page 1

Date 12/12/90Contractor EBASCO SERVICES INC Site WELLSVILLE, NY.Project SINGLAIR REFINERY

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>DORAN STUBBS-USCOE-RUF</u>	<u>Ø</u>	<u>19°-LOW 50° HIGH</u>
		<u>CLEAR</u>

Contractor Personnel Type	#	Subcontractors (Name/Svcs.)	#	Major Equipment On-Site Operating (O)/Standby (S) O/S
<u>C.M.</u>	<u>1</u>	<u>OHM</u>	<u>6</u>	<u>DOZER (2)</u>
<u>RES. ENG.</u>	<u>1</u>	<u>D. MYERS SURVEYOR</u>	<u>2</u>	<u>BACKHOE (2)</u>
				<u>COMPACTOR (2)</u>
				<u>HEAVY HAULER (1)</u>
				<u>END LOADER (T) (1)</u>
				<u>END LOADER (R) (1)</u>
				<u>WATER TRUCK (1)</u>
				<u>DECON FACILITY (1)</u>

Health and Safety Issues NONEQuality Control Issues NONEProblems and Concerns NONEResolution of Previous Problems/Concerns NONEComments NONE

ARCO Waste Site Daily Activity Report

Page 2

Contractor EBASCO SERVICES INC. Site WELLSVILLE, NY Date 12/12/90

Sampling Activities Today	Quantity	Contractor	% Completed
NONE			

Major Activities Today (non-sampling)

GRADE TOP OF DIKE	500 LF	OHM	100%
CONSTRUCT TESTFILL - PLACE 18" ON SECTION 4	450 CY	OHM	100%
PLACE CRUSHED STONE ON TAR PATCH	70 CY	OHM	100%

Major Activities Planned (next 5 working days)

COMPLETE DIKE EXTENSION PUNCHLIST			70%
COMPLETE TESTFILL CONSTRUCTION - 3' OF FILL ON SECT 2 & 3			80%
COVER WASTE PILES			80%
PLACE ROADWAY AGGREGATE			80%

Summary Report GRADED AND COMPACTED DIKE FILL MATERIAL
TO ELEVATIONS PRIOR TO PLACEMENT OF AGGREGATE.
PLACED CRUSHED STONE ON TAR PATCH NEXT TO TEST FILL
COMPLETED PLACING 18" OF FILL OVER THE HDPE ON
SECTION 4 OF THE TEST FILL

Site Manager

D SIMPDIAN FOR G STILES

Date

12-12-90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: Dec 12 1990 DAY: WED HRS.WRK. 11 REPORT NO. 59

WEATHER INFORMATION:

TEMPERATURE: High _____ Low 28° WIND: Mph. _____ Dir. _____

PRECIPITATION: _____ HUMIDITY: _____

PERSONNEL: NON-MANUAL EBASCO C.M. _____ OHM.P.S. 1
 F.E/I _____ P.M. _____
 H&SO _____ HOP _____
 C/SE _____ " _____
 P.M. _____ " _____
 HOP _____
 " _____
 " _____
 ARCO P.M. _____
 OTHERS _____ SUB. _____
 " _____ SUPV. EMPS
 USCOE/EPA _____ SUB. _____
 " _____ SUPV. EMPS
 VISITORS _____

MANUAL OHM Gen. Labor 3 EQUIP. OPER. 2

EQUIPMENT: OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
DozerD58P <u>8</u>	<u>3</u>		
DozerD37P <u>6</u>	<u>5</u>		
Back Hoe400 <u>10</u>	<u>1</u>		
Back Hoe245 <u>6</u>	<u>5</u>		
CompactorsV <u>3</u>	<u>8</u>		
CompactorsF <u>0</u>	<u>11</u>		
Dump Trk.enD <u>10</u>	<u>1</u>		
Dump Trk. _____			
Others _____			
Track LDR <u>4</u>	<u>7</u>		
Wheel LDR <u>0</u>	<u>11</u>		

MEETINGS:

PLAN OF DAY CONT. Layout & EXCAV of W/S Slope & Top of
Dike TO GRADE.

Begin Placement of Geo Tec & BR stone on
"Blow out" of Center of Test Fill

Cont. Placement of 18" on NORTH TEST FILL

SAFETY TASKS AT HAND, 50° weather Forecast (MUD conds).
TASKS Remaining, Pre Final Inspection Results

SCHEDULED

UN-SCHEDULED

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION Place 18" Fill @ North End.

SLA EXCAVATION:

WASTEPILE CONSTRUCTION:

DIKE EXTENSION CONT. Layout & EXCAV OF W/S Slope & Top Dike
TO SUBGRADE

OTHER: Place Geo Tec & Blend stone on TEST FILL
"Blow out"

MATERIALS HANDLED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
CLEARING BRUSH	ACRE	<u>misc</u>	TESTFILL CONST.	CY	
EXCAVATION			AGGREGATES	TON	<u>Blend</u>
			SETTLEMENT PLATES	EA	
			OBSERVATION WELLS	EA	
			GEOTEXTILE FAB	SY	
			BEDDING MATERIAL	TON	
GEOWASTE MATERIAL	CY		GEOTEXTILE FAB	SY	☒
CONTAMINATED WASTE	CY		CLAYMAX	SY	
CLEAN	CY		GEOMEMBRANE	SY	
SLA	CY		CLAY	CY	
TOE TRENCH	CY		COMMON FILL	CY	
KEY TRENCH	CY		RIPRAP	TON	
RIPRAP	TON		MISC.		

MATERIALS RECEIVED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
SETTLEMENT PLATES	EA		GEOTEXTILE FAB	SY	
OBSERVATION WELLS	EA		BEDDING MATERIAL	CY	
AGGREGATES	CY		GEOMEMBRANE	SY	
CLAYMAX	CY		EQUIP. FUEL&LUBE	GAL	
CLAY			MISC.		
COMMON FILL			MISC.		
RIPRAP			MISC.		

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS			
SANITARY WASTE	GALS			
DEBRI	TON			
USED OIL/LUBE.	GAL			
MISC.				

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES ☐ NO ☐		
	YES ☐ NO ☐		
	YES ☐ NO ☐		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

Attached report required by Contract document

_____"_____"_____"_____"_____"_____"
_____"_____"_____"_____"_____"_____"
_____"_____"_____"_____"_____"_____"
_____"_____"_____"_____"_____"_____"

COMMENTS

TECHNICAL CONCERNS/PROBLEMS:

Access & Placement of Geo Tec & Blend Stone on Test Fill Area

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D"mod		
"D"	6	50
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In: _____ Emps. Out: _____
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: _____

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1 _____
2 _____

Accident/Breeches Report: _____

Date 12/13/90Contractor EBASCO SERVICES INC Site WELLSVILLE, N.Y.Project SINCLAIR REFINERY

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>DORAN STUBBS-USCOE-BUF</u>	<u>NONE</u>	<u>35° LOW - 48° HIGH</u>
<u>MIKE HRYWNAK-USCOE-NY</u>		<u>LIGHT SNOW P.M.</u>

Contractor Personnel Type	#	Subcontractors (Name/Svcs.)	#	Major Equipment On-Site Operating (O)/Standby (S) O/S
<u>RES. ENG</u>	<u>1</u>	<u>OHM</u>	<u>6</u>	<u>DOZER (2) 2/0</u>
		<u>DOUG MYERS-SURVEY</u>	<u>2</u>	<u>BACKHOE (2) 2/0</u>
				<u>BACKHOE (1) 1/0</u>
				<u>HEAVY HAULER (1) 1/0</u>
				<u>COMPACTOR (2) 2/5</u>
				<u>WATER TRUCK (1) 1/5</u>
				<u>DECON FACILITY (1) 1/5</u>

Health and Safety Issues BACKHOE WAS STUCK ON EAST SIDE OF
TEST FILL. ATTEMPTS TO EXTRACT WITH PRESENT MANPOWER AND
EQUIPMENT FAILED.

Quality Control Issues PLACEMENT OF ROAD AGGREGATE ON DIKE
WAS PUT ON HOLD DUE TO SNOW AND MUDDY CONDITIONS

Problems and Concerns WILL NEED EQUIPMENT AND MANPOWER FROM
NOTAS TO EXTRACT THE BACKHOE. THE REMAINING PART OF THE
ADDITIONAL 3 FEET OF FILL ON SECTIONS 2 AND 3 MAY NOT BE COMPLETED

Resolution of Previous Problems/Concerns NONE

Comments CONSTRUCTION MANAGER WAS INFORMED OF THE PROBLEM

ARCO Waste Site Daily Activity Report

Page 2

Contractor EBASCO SERVICES INC. Site WELLSVILLE, N.Y. Date 12/13/90

Sampling Activities Today	Quantity	Contractor	% Completed
NONE			

Major Activities Today (non-sampling)

PLACE 3 FT. FILL ON SECT. 2 & 3 OF TEST FILL	OHM	60%
MONITOR SETTLEMENT PLATES (DAILY)	D. MYERS	ALL

Major Activities Planned (next 5 working days)

COMPLETE DIKE EXTENSION PUNCHLIST	70%
COMPLETE TESTFILL CONSTRUCTION	85%
COVER WASTE PILE AND TEST FILL WITH PVC	80%

Summary Report THE ADDITIONAL 3 FEET OF FILL WAS PLACED
ON APPROXIMATELY 70% OF SECTIONS 2 AND 3 WHEN
THE BACKHOE WAS STUCK ON THE EAST SIDE OF THE
TEST FILL. OHM SAID THEY WOULD NOT COMPLETE
PLACING THE REMAINDER OF THE FILL WITHOUT SPECIAL
EQUIPMENT WHICH WOULD TAKE A MINIMUM OF 2 MONTHS
TO MOBILIZE.

Site Manager J SIMPADIEN FOR G STILESDate 12/13/90

MEETINGS:

PLAN OF DAY Begin Place 3' on Center of Test Fill
Place /Grade/ Compact Road stone on dike.
Cont. Punch List items

SAFETY Rain/Cold/mud CONDTS. TASKS Remaining.
Sub Contr. ops

SCHEDULED

UN-SCHEDULED Rental P/C 400 EXCH Stuck in mud/oil @
EAST SIDE OF Center Test Fill. UNABLE TO EXTRACT w/
PRESENT man power & EQPT @ 2100 HRS. HAVE OTIS
EASTERN Set up TO Help 0700 / Fri / 12-14-90
(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION Begin Place 3' WASTE on Center
of Test Fill

Rental PC400 EXCH STUCK @ 1500 HRS / Attempts TO Recover
FAIL

SLA EXCAVATION:

WASTEPILE CONSTRUCTION:

→ DIKE EXTENSION Placement OF Road AGG Put on hold due
to weather & Soil CONDTS.

OTHER: Decon misc EQPT, Cont. Punch List.
1500-2100 HRS ATTEMPT TO EXTRACT PC400 - unsuccessful.

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE			TESTFILL CONST.	CY		
				AGGREGATES	TON		
EXCAVATION				SETTLEMENT PLATES	EA		
				OBSERVATION WELLS	EA		
				GEOTEXTILE FAB	SY		
				BEDDING MATERIAL	TON		
GEOWASTE MATERIAL	CY			GEOTEXTILE FAB	SY		
CONTAMINATED WASTE	CY	X		CLAYMAX	SY		
CLEAN	CY			GEOMEMBRANE	SY		
SLA	CY			CLAY	CY		
TOE TRENCH	CY			COMMON FILL	CY		
KEY TRENCH	CY			RIPRAP	TON		
RIPRAP	TON			MISC.			

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
SETTLEMENT PLATES	EA			GEOTEXTILE FAB	SY		
OBSERVATION WELLS	EA			BEDDING MATERIAL	CY		
AGGREGATES	CY			GEOMEMBRANE	SY		
CLAYMAX	CY			EQUIP. FUEL&LUBE	GAL		
CLAY				MISC.			
COMMON FILL				MISC.			
RIPRAP				MISC.			

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS				
SANITARY WASTE	GALS				
DEBRI	TON				
USED OIL/LUBE.	GAL				
MISC.					

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

REPORT NUMBERS

	00	00	00	00	00	00
	00	00	00	00	00	00
	00	00	00	00	00	00
	00	00	00	00	00	00

TECHNICAL CONCERNS/PROBLEMS:

PC400 EXCHW STUCK - EXTRACTION UNSUCCESSFUL AT THIS TIME. ATTEMPT AGAIN TOMORROW/FRI

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D"mod		
"D"	7	
"C"		
"B"		
OTHER		

Personnel: Emps. In: 3 Emps. Out: 3
Equipment: In: 3 Out: 0
Venders Equipment: In: _____ Out: _____

No.	Time	Location	Emp.No./Equip.No.	Injury/damage	Response
1	11:00 AM	10000	10000	10000	10000
2	11:00 AM	10000	10000	10000	10000
3	11:00 AM	10000	10000	10000	10000
4	11:00 AM	10000	10000	10000	10000
5	11:00 AM	10000	10000	10000	10000
6	11:00 AM	10000	10000	10000	10000
7	11:00 AM	10000	10000	10000	10000
8	11:00 AM	10000	10000	10000	10000
9	11:00 AM	10000	10000	10000	10000
10	11:00 AM	10000	10000	10000	10000
11	11:00 AM	10000	10000	10000	10000
12	11:00 AM	10000	10000	10000	10000
13	11:00 AM	10000	10000	10000	10000
14	11:00 AM	10000	10000	10000	10000
15	11:00 AM	10000	10000	10000	10000
16	11:00 AM	10000	10000	10000	10000
17	11:00 AM	10000	10000	10000	10000
18	11:00 AM	10000	10000	10000	10000
19	11:00 AM	10000	10000	10000	10000
20	11:00 AM	10000	10000	10000	10000
21	11:00 AM	10000	10000	10000	10000
22	11:00 AM	10000	10000	10000	10000
23	11:00 AM	10000	10000	10000	10000
24	11:00 AM	10000	10000	10000	10000
25	11:00 AM	10000	10000	10000	10000
26	11:00 AM	10000	10000	10000	10000
27	11:00 AM	10000	10000	10000	10000
28	11:00 AM	10000	10000	10000	10000
29	11:00 AM	10000	10000	10000	10000
30	11:00 AM	10000	10000	10000	10000
31	11:00 AM	10000	10000	10000	10000
32	11:00 AM	10000	10000	10000	10000
33	11:00 AM	10000	10000	10000	10000
34	11:00 AM	10000	10000	10000	10000
35	11:00 AM	10000	10000	10000	10000
36	11:00 AM	10000	10000	10000	10000
37	11:00 AM	10000	10000	10000	10000
38	11:00 AM	10000	10000	10000	10000
39	11:00 AM	10000	10000	10000	10000
40	11:00 AM	10000	10000	10000	10000
41	11:00 AM	10000	10000	10000	10000
42	11:00 AM	10000	10000	10000	10000
43	11:00 AM	10000	10000	10000	10000
44	11:00 AM	10000	10000	10000	10000
45	11:00 AM	10000	10000	10000	10000
46	11:00 AM	10000	10000	10000	10000
47	11:00 AM	10000	10000	10000	10000
48	11:00 AM	10000	10000	10000	10000
49	11:00 AM	10000	10000	10000	10000
50	11:00 AM	10000	10000	10000	10000
51	11:00 AM	10000	10000	10000	10000
52	11:00 AM	10000	10000	10000	10000
53	11:00 AM	10000	10000	10000	10000
54	11:00 AM	10000	10000	10000	10000
55	11:00 AM	10000	10000	10000	10000
56	11:00 AM	10000	10000	10000	10000
57	11:00 AM	10000	10000	10000	1

1 _____
2 _____
Accident/Breeches Report: _____

Date 12/14/90Contractor EBASCO SERVICES INC Site WELLSVILLE, N.Y.Project SINCLAIR REFINERY

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>DORAN STUBBS-USCOE-BUF</u>		<u>15° LOW - 35° HIGH</u>
<u>MIKE HRYWNAK-USCOE-NY</u>		<u>SUNNY</u>

Contractor Personnel Type	#	Subcontractors (Name/Svcs.)	#	Major Equipment On-Site Operating (O)/Standby (S)	O/S
<u>RES. ENG</u>	<u>1</u>	<u>OHM</u>	<u>6</u>	<u>DOZER</u>	<u>(2) 2/0</u>
		<u>OTIS EASTERN</u>	<u>4</u>	<u>BACKHOE</u>	<u>(2) 2/0</u>
		<u>DOUG MYERS</u>	<u>2</u>	<u>BACKHOE</u>	<u>(1) 1/0</u>
				<u>COMPACTOR</u>	<u>(1) 1/0</u>
				<u>HEAVY HAULER</u>	<u>(1) 1/5</u>
				<u>TRACK LOADER</u>	<u>(1) 1/0</u>
				<u>WATER TRUCK</u>	<u>(1) 1/5</u>
				<u>DECON FACIL</u>	<u>(1) 1/5</u>

Health and Safety Issues EQUIPMENT AND PERSONNEL (4) FROM
OTIS WERE BROUGHT ON SITE TO REMOVE THE HOE STUCK
ON THE CELA. SOME CELA MATERIAL WAS EXCAVATED. NO ODORS
WERE PRESENT

Quality Control Issues NONE

Problems and Concerns THE HOE RESCUE OPERATION LASTED 2 1/2 HRS
(8:00 AM - 10:30 AM) THE EXTRACTED BACKHOE INCLUDING
EQUIPMENT FROM OTIS WILL BE DECONTAMINATED USING HIGH PRESSURE WASH

Resolution of Previous Problems/Concerns THE HOE WAS EXTRACTED AND
REMOVED FROM THE CELA. CELA MATERIAL REMOVED WAS
PUSHED BACK INTO THE HOLE WHERE DOZER WAS EXTRACTED FROM

Comments THE EXCAVATED AREA TO REMOVE THE BACKHOE
WAS APPROX. 8 FEET DEEP COVERING A 30 X 30 AREA

ARCO Waste Site Daily Activity Report

Page 2

Contractor EBASCO SERVICES INC Site WELLSVILLE, NY Date 12/14/90

Sampling Activities Today	Quantity	Contractor	% Completed
NONE			

Major Activities Today (non-sampling)

EXTRACT BACKHOE FROM CELA	OHM/OTIS	100%
MONITOR SETTLEMENT PLATES	D MYERS	ALL
PLACE AGGREGATE ON DIKE	OHM	90%

Major Activities Planned (next 5 working days)

COMPLETE DIKE EXTENSION PUNCHLIST	85%
COVER TEST FILL AND SLA STORAGE AREA WITH A/C	80%
DECON EQUIPMENT	

Summary Report BACKHOE WAS EXTRACTED AND REMOVEDFROM THE CELA. DECISION WAS MADE NOT TO PLACE
REMAINDER OF FILL ON THE TEST FILL. AGGREGATE
WAS PLACED ON THE DIKE AND COMPACTEDSite Manager D SIMPDIAN FOR G. STILESDate 12/14/90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: Dec 14 1990 DAY: Fri HRS.WRK. 12 REPORT NO. 61

WEATHER INFORMATION:

TEMPERATURE: High _____ Low 15 WIND: Mph. _____ Dir. _____

PRECIPITATION: _____ HUMIDITY: _____

PERSONNEL: NON-MANUAL EBASCO C.M. _____ OHM.P.S. 1

F.E/I _____ P.M. _____

H&SO _____ HOP _____

C/SE _____ " _____

P.M. _____ " _____

HOP _____

" _____

" _____

ARCO P.M. _____

OTHERS _____

" _____

USCOE/EPA _____

" _____

VISITORS _____

SUB. _____

SUPV. EMPS

SUB. OTIS EASTERN

SUPV. EMPS 2

MANUAL OHM Gen. Labor 3 EQUIP. OPER. 2

EQUIPMENT: OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
Dozer D58P <u>9</u>	<u>3</u>		
Dozer D37P <u>9</u>	<u>3</u>		
Back Hoe 450 <u>6</u>	<u>6</u>		<u>Recovered</u>
Back Hoe 215 <u>0</u>	<u>12</u>		
Compactor SV <u>4</u>	<u>8</u>		
Compactor _____			
Dump Trk. <u>0</u>	<u>12</u>		
Dump Trk. _____			
Others _____			
TRUCK Loader <u>9</u>	<u>3</u>		
235 EXCAV <u>9</u>	<u>3</u>		

MEETINGS:

PLAN OF DAY Remove PC400 From EAST SIDE of Central
TEST FILL AREA

Cont. Place 3' LIFT of WASTE on TEST FILL
Place & Compact 6" F-4 on DIKE ROAD

SAFETY PC400 Removal ops, SubConte ops, Cold weather
ops/Hypothermia, TASKS Remaining.

SCHEDULED _____

UN-SCHEDULED _____

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

TESTFILL CONSTRUCTION EXTRACT PC400 From EAST/Central
TESTFILL AREA

Restone Area Impacted

MISC Grading AS per Punch List

SLA EXCAVATION: _____

WASTEPILE CONSTRUCTION: _____

DIKE EXTENSION Place & Compact 6" F-4 STONE

OTHER: Decon SUBConte. EGPT USED TO EXTRACT
PC400

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE			TESTFILL CONST.	CY		
				AGGREGATES	TON		<i>2-4 stone</i>
EXCAVATION				SETTLEMENT PLATES	EA		
				OBSERVATION WELLS	EA		
				GEOTEXTILE FAB	SY		
				BEDDING MATERIAL	TON		
GEOWASTE MATERIAL	CY			GEOTEXTILE FAB	SY		
CONTAMINATED WASTE	CY		<i>X</i>	CLAYMAX	SY		
CLEAN	CY			GEOMEMBRANE	SY		
SLA	CY			CLAY	CY		
TOE TRENCH	CY			COMMON FILL	CY		
KEY TRENCH	CY			RIPRAP	TON		
RIPRAP	TON			MISC.			

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
SETTLEMENT PLATES	EA			GEOTEXTILE FAB	SY		
OBSERVATION WELLS	EA			BEDDING MATERIAL	CY		
AGGREGATES	CY			GEOMEMBRANE	SY		
CLAYMAX	CY			EQUIP. FUEL&LUBE	GAL		
CLAY				MISC. <i>I4</i>	<i>TON</i>		<i>X</i>
COMMON FILL				MISC.			
RIPRAP				MISC.			

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS				
<i>Ø</i> SANITARY WASTE	GALS				
DEBRI	TON				
USED OIL/LUBE.	GAL				
MISC.					

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
<i>Ø</i>	YES <u> </u> NO <u> </u>	<u> </u>	<u> </u>
	YES <u> </u> NO <u> </u>	<u> </u>	<u> </u>
	YES <u> </u> NO <u> </u>	<u> </u>	<u> </u>

	Attached report required by Contract document					
	"	"	"	"	"	"
	"	"	"	"	"	"
	"	"	"	"	"	"
	"	"	"	"	"	"

Removal of PC400

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D" mod	3	30
"D"	4	45
"C"		
"B"		
OTHER		

Personnel: Emps. In: _____ Emps. Out: _____
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: wheel loader

No.	Time	Location	Emp.No./Equip.No.	Injury/damage	Response
1	11:00	1000	1000	1000	1000
2	11:00	1000	1000	1000	1000
3	11:00	1000	1000	1000	1000
4	11:00	1000	1000	1000	1000
5	11:00	1000	1000	1000	1000
6	11:00	1000	1000	1000	1000
7	11:00	1000	1000	1000	1000
8	11:00	1000	1000	1000	1000
9	11:00	1000	1000	1000	1000
10	11:00	1000	1000	1000	1000
11	11:00	1000	1000	1000	1000
12	11:00	1000	1000	1000	1000
13	11:00	1000	1000	1000	1000
14	11:00	1000	1000	1000	1000
15	11:00	1000	1000	1000	1000
16	11:00	1000	1000	1000	1000
17	11:00	1000	1000	1000	1000
18	11:00	1000	1000	1000	1000
19	11:00	1000	1000	1000	1000
20	11:00	1000	1000	1000	1000
21	11:00	1000	1000	1000	1000
22	11:00	1000	1000	1000	1000
23	11:00	1000	1000	1000	1000
24	11:00	1000	1000	1000	1000
25	11:00	1000	1000	1000	1000
26	11:00	1000	1000	1000	1000
27	11:00	1000	1000	1000	1000
28	11:00	1000	1000	1000	1000
29	11:00	1000	1000	1000	1000
30	11:00	1000	1000	1000	1000
31	11:00	1000	1000	1000	1000
32	11:00	1000	1000	1000	1000
33	11:00	1000	1000	1000	1000
34	11:00	1000	1000	1000	1000
35	11:00	1000	1000	1000	1000
36	11:00	1000	1000	1000	1000
37	11:00	1000	1000	1000	1000
38	11:00	1000	1000	1000	1000
39	11:00	1000	1000	1000	1000
40	11:00	1000	1000	1000	1000
41	11:00	1000	1000	1000	1000
42	11:00	1000	1000	1000	1000
43	11:00	1000	1000	1000	1000
44	11:00	1000	1000	1000	1000
45	11:00	1000	1000	1000	1000
46	11:00	1000	1000	1000	1000
47	11:00	1000	1000	1000	1000
48	11:00	1000	1000	1000	1000
49	11:00	1000	1000	1000	1000
50	11:00	1000	1000	1000	1000
51	11:00	1000	1000	1000	1000
52	11:00	1000	1000	1000	1000
53	11:00	1000	1000	1000	1000
54	11:00	1000	1000	1000	1000
55	11:00	1000	1000	1000	1000
56	11:00	1000	1000	1000	1000
57	11:00	1000	1000	1000	1000
58	11:00	1000	1000	1000	1000
59	11:00	1000	1000	1000	1000
60	11:00	1000	1000	1000	1000
61	11:00	1000	1000	1000	1000
62					

1 _____
2 _____

Accident/Breeches Report: _____

ARCO Waste Site Daily Activity Report

Page 1

Date 12/15/90Contractor EBASCO SERVICES INC Site WELLSVILLE, N.Y.Project SINCLAIR REFINERYAgencies
(Name/Agency)Visitors
(Name/Company)

Weather

25° LOW -SNOW MIXED WITH RAINContractor Personnel
Type

#

Subcontractors
(Name/Svcs.)

#

Major Equipment On-Site
Operating (O)/Standby (S) O/SRES. ENG1OHM5DOZER (2) 2/0BACKHOE (2) 1/0BACKHOE (1) 1/5COMPACTOR (1) 1/5HEAVY HAULER (1) 1/5TRACK LOADER (1) 1/0WATER TRUCK (1) 1/5DECON FACIL (1) 1/5

Health and Safety Issues

NONE

Quality Control Issues

NONE

Problems and Concerns

NONE

Resolution of Previous Problems/Concerns

EQUIPMENT IS BEINGDECONTAMINATED

Comments

ARCO Waste Site Daily Activity Report

Page 2

Contractor EBASCO SERVICES INC Site WELLSVILLE, NY Date 12/15/90

Sampling Activities Today	Quantity	Contractor	% Completed
NONE			

Major Activities Today (non-sampling)

CONTINUE DIKE EXTENSION PUNCHLIST	OHM	95%
MISC. GRADING, CLEAN-UP & DECON	OHM	25%

Major Activities Planned (next 5 working days)

COMPLETE DIKE EXTENSION PUNCHLIST	95%
PLACE LINER ON TESTFILL AND SLA STORAGE AREA	80%
REMOVE DEBRIS, CLEAN-UP SITE	25%
DECON AND DEMOB	

Summary Report CONTINUED WORK ON DIKE EXTENSION PUNCHLIST
PLACE RIPRAP, DRESS SIDE SLOPES ETC. AND MISC.
GRADING AROUND DIKE TOWARDS IMPOUNDMENT

Site Manager D SIMPDIAN FOR G. STILESDate 12/15/90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: 12/15/90 DAY: SAT HRS.WRK. 10 1/2 REPORT NO. 62

WEATHER INFORMATION:

TEMPERATURE: High _____ Low 25° WIND: Mph. _____ Dir. _____
 PRECIPITATION: Snow/Rain HUMIDITY: _____

PERSONNEL: NON-MANUAL EBASCO C.M. _____ OHM.P.S. 1
 F.E/I _____ P.M. _____
 H&SO _____ HOP _____
 C/SE _____ " _____
 P.M. _____ " _____
 HOP _____
 " _____
 " _____
 ARCO P.M. _____
 OTHERS _____ SUB. _____
 " _____ SUPV. EMPS
 USCOE/EPA _____ SUB. _____
 " _____ SUPV. EMPS
 VISITORS _____

MANUAL OHM Gen. Labor 2 EQUIP. OPER. 2

EQUIPMENT:	OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
DozerD37P	<u>5</u>	<u>5 1/2</u>		
Dozer058P	<u>4</u>	<u>6 1/2</u>		
Back Hoe 215	<u>4</u>	<u>6 1/2</u>		
Back Hoe 400				
Compactors ✓	<u>0</u>	<u>10 1/2</u>		
Compactor				
Dump Trk. END	<u>0</u>	<u>10 1/2</u>		
Dump Trk.				
Others				
TRUCK loader	<u>3</u>	<u>7 1/2</u>		
235	<u>0</u>			<u>Decomed</u>

MEETINGS:

PLAN OF DAY Punch List / Punch List / Punch List .

SAFETY Snow / Rain / Cold / Hypothermia
TASKS AT HAND

SCHEDULED

UN-SCHEDULED

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)

TESTFILL CONSTRUCTION misc Grading As per Punch List,
Prep For Installation of Liner on Mon 12/17/90

SLA EXCAVATION:

WASTEPILE CONSTRUCTION:

DIKE EXTENSION misc Dress up of Top of Dike, etc

OTHER: Punch List, clean up, stage supplies, Begin Decon

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE			TESTFILL CONST.	CY		
EXCAVATION				AGGREGATES	TON		
				SETTLEMENT PLATES	EA		
				OBSERVATION WELLS	EA		
				GEOTEXTILE FAB	SY		
				BEDDING MATERIAL	TON		
GEOWASTE MATERIAL	CY			GEOTEXTILE FAB	SY		
CONTAMINATED WASTE	CY	X		CLAYMAX	SY		
CLEAN	CY	X		GEOMEMBRANE	SY		
SLA	CY			CLAY	CY		
TOE TRENCH	CY			COMMON FILL	CY		
KEY TRENCH	CY			RIPRAP	TON		
RIPRAP	TON			MISC.			

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
SETTLEMENT PLATES	EA			GEOTEXTILE FAB	SY		
OBSERVATION WELLS	EA			BEDDING MATERIAL	CY		
AGGREGATES	CY			GEOMEMBRANE	SY		
CLAYMAX	CY			EQUIP. FUEL&LUBE	GAL		
CLAY				MISC.			
COMMON FILL				MISC.			
RIPRAP				MISC.			

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS				
SANITARY WASTE	GALS				
DEBRI	TON				
USED OIL/LUBE.	GAL				
MISC.					

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

Attached report required by Contract document

" " " " " "
" " " " " "
" " " " " "
" " " " " "

COMMENTS

TECHINICAL CONCERNS/PROBLEMS:

Weather & Soil Condrts.

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D"mod	<u>1</u>	<u>3</u>
"D"	<u>5</u>	<u>25</u>
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In: 1 Emps. Out: 1
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: _____

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1 _____
2 _____

Accident/Breeches Report: _____

ARCO Waste Site Daily Activity Report

Page 1

Date 12 / 17 / 90Contractor EBASCO SERVICES INC Site WELLSVILLE, NYProject SINCLAIR REFINERY

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>JORAN STUBBS - USCOE - BUF.</u>		<u>30° LOW - 45° HIGH</u>
<u>MIKE HRYWNAN - USCOE - NY</u>		

Contractor Personnel Type	#	Subcontractors (Name/Svcs.)	#	Major Equipment On-Site Operating (O)/Standby (S)	O/S
<u>RES. ENG</u>	<u>1</u>	<u>OHM</u>	<u>5</u>	<u>DOZER (2)</u>	<u>1/5</u>
		<u>DOUG MYERS - SURVEYOR</u>	<u>2</u>	<u>BACKHOE (2)</u>	<u>2/0</u>
		<u>CHARLES BAKER</u>	<u>5</u>	<u>BACKHOE (1)</u>	<u>1/5</u>
				<u>COMPACTOR (1)</u>	<u>1/5</u>
				<u>HEAVY HAULER (1)</u>	<u>1/5</u>
				<u>WATER TRUCK (1)</u>	<u>1/5</u>
				<u>DECON FACIL (1)</u>	<u>1/5</u>

Health and Safety Issues IT IS DANGEROUS TO WALK OVER THE LINER WHERE THE ADDITIONAL 3 FEET OF FILL IS PLACED SINCE THE LINER DOES NOT CONFORM TO THE UNEVEN SURFACE.

Quality Control Issues TEST FILL SURFACE IS NOT PREPARED PROPERLY TO INSTALL LINER TO PROVIDE PROPER DRAINAGE. LINER HAD TO BE PULLED OVER RISER PIPES OF SETTLEMENT PILES DISPLACING 5 WHICH HAD TO BE REINSTALLED.

Problems and Concerns LINER WAS NOT INSTALLED PROPERLY OVER RAMP TO CELA AND WASTE PILE ON THE WEST SIDE OF THE RAMP. REQUESTED OHM TO INSTALL LINER PROPERLY ON THE RAMP AND WASTEPILE TO THE EAST OF THE RAMP.

Resolution of Previous Problems/Concerns NONE

Comments OPEN OBSERVATION WELL IN SECT. 2 OF THE TEST FILL DID NOT EXTEND THE FULL HEIGHT OF THE FILL. A LARGER DIAMETER PIPE WILL BE PLACED OVER THE WELL AND VOIDS IN ADJACENT AREAS WILL BE BRIDGED WITH PLYWOOD. THE LINER OVER THE OBSERVATION WELL WILL BE PATCHED.

Contractor EBASCO SERVICES INC Site WELLSVILLE, NY Date 12/17/90

Sampling Activities Today	Quantity	Contractor	% Completed
NONE			

Major Activities Today (non-sampling)

INSTALL PVC LINER ON TEST FILL RAMP TO CELA AND WASTEPILE WEST OF RAMP	OHM	100%
DECON EQUIPMENT	OHM	75%
COMPLETE DIKE PUNCHLIST ITEMS	OHM	100%
MONITOR SETTLEMENT PLATES	D MYERS	ALL

Major Activities Planned (next 5 working days)

HOT WELD/SAW SEAMS ON PVC INSTALLED	0%
REMOVE DEBRIS AND CLEAN-UP SITE	90%
DECON AND DEMOB	75%

Summary Report LINER WAS INSTALLED OVER TEST FILL SECTIONS 2 AND 3. THE ADDITIONAL 3 FEET OF FILL COVERS THIS AREA PARTIALLY. THE SURFACE IS UNEVEN AS PLACEMENT OF THE FILL WAS ABRUPTLY STOPPED DUE TO THE BACKHOE INCIDENT. DUE TO THE UNEVEN SURFACE AND PROTRUDING RISER PIPES, IT WAS DIFFICULT TO PLACE LINER OVER THESE SECTIONS. LINER INSTALLATION OVER THE RAMP TO THE CELA AND WASTEPILE TO THE EAST OF THE RAMP WAS NOT ACCEPTABLE. OHM WILL CORRECT THE SITUATION TOMMORROW.

Site Manager D SIMPDIAN FOR G. STILES Date 12/17/90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: 12/17/90 DAY: Mon HRS. WRK. 10 1/2 REPORT NO. 63

WEATHER INFORMATION:

TEMPERATURE: High 46 Low WIND: Mph. Dir.

PRECIPITATION: HUMIDITY:

PERSONNEL: NON-MANUAL EBASCO C.M. OHM.P.S. 1
 F.E/I P.M.
 H&SO HOP
 C/SE "
 P.M. "
 HOP
 "
 "
 ARCO P.M.
 OTHERS SUB. Baker
 " SUPV. EMPS 5
 USCOE/EPA SUB.
 " SUPV. EMPS
 VISITORS

MANUAL OHM Gen. Labor 2 EQUIP. OPER. 2

EQUIPMENT: OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
Dozer D58P <u>1</u>	<u>9 1/2</u>	<u> </u>	<u> </u>
Dozer D37P <u>6</u>	<u>4 1/2</u>	<u> </u>	<u> </u>
Back Hoe 400 <u>4</u>	<u>6 1/2</u>	<u> </u>	<u> </u>
Back Hoe 215 <u>4</u>	<u>6 1/2</u>	<u> </u>	<u> </u>
Compactor SV <u>0</u>	<u>10 1/2</u>	<u> </u>	<u>Demolished</u>
Compactor <u> </u>	<u> </u>	<u> </u>	<u> </u>
Dump Trk <u>EMB 0</u>	<u>10 1/2</u>	<u> </u>	<u> </u>
Dump Trk. <u> </u>	<u> </u>	<u> </u>	<u> </u>
Others <u> </u>	<u> </u>	<u> </u>	<u> </u>
235 <u>1</u>	<u>9 1/2</u>	<u> </u>	<u>Decon/Demolish</u>
" <u> </u>	<u> </u>	<u> </u>	<u> </u>

MEETINGS:

PLAN OF DAY Install (5) 75'x150' Liner & over
Test Fill, Haul Road & other
Decon EQPT

SAFETY Sub Cont ops, Liner TASK, Slips, Trips, Falls

SCHEDULED _____

UN-SCHEDULED _____

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION Install (5) 75'x150' Liner

SLA EXCAVATION: _____

WASTEPILE CONSTRUCTION: Install Liner, AS Above, AS
per direction of EBASCO/DURCO

DIKE EXTENSION _____

OTHER: Cont Decon EQPT.

Demolish (TO OTIS EASTERN) 23.5 & D.B

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE			TESTFILL CONST.	CY		
				AGGREGATES	TON		
EXCAVATION				SETTLEMENT PLATES	EA		
				OBSERVATION WELLS	EA		
				GEOTEXTILE FAB	SY		
				BEDDING MATERIAL	TON		
GEOWASTE MATERIAL	CY			GEOTEXTILE FAB	SY		
CONTAMINATED WASTE	CY	X		CLAYMAX	SY		
CLEAN	CY			GEOMEMBRANE	SY		
SLA	CY			CLAY	CY		
TOE TRENCH	CY			COMMON FILL	CY		
KEY TRENCH	CY			RIPRAP	TON		
RIPRAP	TON			MISC.			<u>Liner</u>

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
SETTLEMENT PLATES	EA			GEOTEXTILE FAB	SY		
OBSERVATION WELLS	EA			BEDDING MATERIAL	CY		
AGGREGATES	CY			GEOMEMBRANE	SY		
CLAYMAX	CY			EQUIP. FUEL&LUBE	GAL		
CLAY				MISC.			
COMMON FILL				MISC.			
RIPRAP				MISC.			

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS				
SANITARY WASTE	GALS				
DEBRI	TON				
USED OIL/LUBE.	GAL				
MISC.					

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

ϕ

	Attached report required by Contract document					
	"	"	"	"	"	"
	"	"	"	"	"	"
	"	"	"	"	"	"
	"	"	"	"	"	"

Linea Installation

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D" mod	9	56 ±
"D"		
"C"		
"B"		
OTHER		

Personnel: Emps. In: 9 Emps. Out: 9
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: _____

④

No.	Time	Location	Emp.No./Equip.No.	Injury/damage	Response
1	11:00 AM	10000	10000	10000	10000
2	11:00 AM	10000	10000	10000	10000
3	11:00 AM	10000	10000	10000	10000
4	11:00 AM	10000	10000	10000	10000
5	11:00 AM	10000	10000	10000	10000
6	11:00 AM	10000	10000	10000	10000
7	11:00 AM	10000	10000	10000	10000
8	11:00 AM	10000	10000	10000	10000
9	11:00 AM	10000	10000	10000	10000
10	11:00 AM	10000	10000	10000	10000
11	11:00 AM	10000	10000	10000	10000
12	11:00 AM	10000	10000	10000	10000
13	11:00 AM	10000	10000	10000	10000
14	11:00 AM	10000	10000	10000	10000
15	11:00 AM	10000	10000	10000	10000
16	11:00 AM	10000	10000	10000	10000
17	11:00 AM	10000	10000	10000	10000
18	11:00 AM	10000	10000	10000	10000
19	11:00 AM	10000	10000	10000	10000
20	11:00 AM	10000	10000	10000	10000
21	11:00 AM	10000	10000	10000	10000
22	11:00 AM	10000	10000	10000	10000
23	11:00 AM	10000	10000	10000	10000
24	11:00 AM	10000	10000	10000	10000
25	11:00 AM	10000	10000	10000	10000
26	11:00 AM	10000	10000	10000	10000
27	11:00 AM	10000	10000	10000	10000
28	11:00 AM	10000	10000	10000	10000
29	11:00 AM	10000	10000	10000	10000
30	11:00 AM	10000	10000	10000	10000
31	11:00 AM	10000	10000	10000	10000
32	11:00 AM	10000	10000	10000	10000
33	11:00 AM	10000	10000	10000	10000
34	11:00 AM	10000	10000	10000	10000
35	11:00 AM	10000	10000	10000	10000
36	11:00 AM	10000	10000	10000	10000
37	11:00 AM	10000	10000	10000	10000
38	11:00 AM	10000	10000	10000	10000
39	11:00 AM	10000	10000	10000	10000
40	11:00 AM	10000	10000	10000	10000
41	11:00 AM	10000	10000	10000	10000
42	11:00 AM	10000	10000	10000	10000
43	11:00 AM	10000	10000	10000	10000
44	11:00 AM	10000	10000	10000	10000
45	11:00 AM	10000	10000	10000	10000
46	11:00 AM	10000	10000	10000	10000
47	11:00 AM	10000	10000	10000	10000
48	11:00 AM	10000	10000	10000	10000
49	11:00 AM	10000	10000	10000	10000
50	11:00 AM	10000	10000	10000	10000
51	11:00 AM	10000	10000	10000	10000
52	11:00 AM	10000	10000	10000	10000
53	11:00 AM	10000	10000	10000	10000
54	11:00 AM	10000	10000	10000	10000
55	11:00 AM	10000	10000	10000	10000
56	11:00 AM	10000	10000	10000	10000
57	11:00 AM	10000	10000	10000	1

1 _____
2 _____

Date 12/18/90Contractor EBASCO SERVICES INC Site WELLSVILLE, NYProject SINCLAIR REFINERYAgencies
(Name/Agency)Visitors
(Name/Company)

Weather

DORAN STUBBS-USCOE-BUF JOHN CRAMER-USCOE-KANSAS 40°MIKE HRYWINAK-USCOE-NY DON HOOKER-USCOE-KANSAS RAIN HEAVYSCOTT VOLLINK-USCOE-KANSAS AT TIMESGEORGE LINDENBERG-USCOE-KANSASContractor Personnel
Type

#

Subcontractors
(Name/Svcs.)

#

Major Equipment On-Site
Operating (O)/Standby (S) O/SRES ENG1OHM4BACKHOE (1) 1/0LINER TECHNOLOGY1DECON FACILITY (1) 1/5DOZER (1) 1/5LOADER (1) 1/5

Health and Safety Issues

NONE

Quality Control Issues

NONE

Problems and Concerns

THE EDGES OF LINER OVER THE WASTEPILE ON
THE RAMP SIDE HAD PILES OF DIRT. LINER TECHNOLOGY REQUIRED THE
DIRT REMOVED BEFORE THE EXISTING LINER COULD BE SEAMED WITH THE NEW
LINER OVER THE RAMP. OBSERVATION WELL ON SECT. #2 OF T/F SHOULD BE EXTENDED.

Resolution of Previous Problems/Concerns

OHM REINSTALLED LINER OVER
RAMP TO CELA AND EAST OF THE RAMP.

Comments

OHM WANTED \$1500 EXTRA TO REMEDY ABOVE CONCERNS
WE CAME UP WITH A COMPROMISE AT NO ADDITIONAL COST.
D STUBBS TOLD ME THE DIKE EXTENSION WAS ACCEPTABLE
TO THE USCOE.

ARCO Waste Site Daily Activity Report

Page 2

Contractor EBASCO SERVICES INC Site WELLSVILLE, NY Date 12/18/90

Sampling Activities Today	Quantity	Contractor	% Completed
NONE			

Major Activities Today (non-sampling)

SEAM SECTIONS OF LINER AND BOOT AROUND PENETRATIONS		LINER TECH	30%
REINSTALL LINER WHERE REQUIRED AND TRENCH SIDES		OHM	100%

Major Activities Planned (next 5 working days)

COMPLETE SEAMS ON LINER	30%
INSTALL GAS MONITORING INSTRUMENT	0%

Summary Report OHM REINSTALLED LINER WHERE REQUIRED
SEAMING AND BOOTING OF PENETRATIONS OF
LINER PROCEEDED AT TIMES BASED ON WEATHER
CONDITIONS

Site Manager D SIMPADIEN FOR G. STILESDate 12/18/90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: Dec 18 1990 DAY: TUES HRS.WRK. _____ REPORT NO. _____

WEATHER INFORMATION:

TEMPERATURE: High _____ Low _____ WIND: Mph. _____ Dir. _____

PRECIPITATION: Heavy Rain HUMIDITY: 100%

PERSONNEL: NON-MANUAL EBASCO C.M. _____ OHM.P.S. 1

F.E/I _____ P.M. _____

H&SO _____ HOP _____

C/SE _____ " _____

P.M. _____ " _____

HOP _____

" _____

" _____

ARCO P.M. _____

OTHERS _____ SUB. _____

" _____ SUPV. EMPS

USCOE/EPA _____ SUB. _____

" _____ SUPV. EMPS

VISITORS _____

MANUAL OHM Gen. Labor 1 EQUIP. OPER. 2

EQUIPMENT: OPERATED(hrs) IDLE/STAND-BY DOWN MISC.INFO.

Dozer D5BP _____ Demobed

Dozer D37P _____ Decon

Back Hoe 400 _____ Decon

Back Hoe 215 2 _____ Decon

Compactor _____

Compactor _____

Dump Trk. END _____ Demobed

Dump Trk. _____

Others _____

" _____

" _____

MEETINGS:

PLAN OF DAY Complete Decon ops, Cont. Demobe of
EERT, misc. site grade.

SAFETY Hwy Rain / soil Conats / Slips - Trips - Falls / Hypothermia

SCHEDULED

UN-SCHEDULED

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION

SLA EXCAVATION:

WASTEPILE CONSTRUCTION: Complete Installation of PVC
Lines on haul Road

DIKE EXTENSION misc. site Grading.

OTHER: Cont Demobe & Decon ops

MATERIALS HANDLED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
CLEARING BRUSH	ACRE			TESTFILL CONST.	CY		
				AGGREGATES	TON		
EXCAVATION				SETTLEMENT PLATES	EA		
				OBSERVATION WELLS	EA		
				GEOTEXTILE FAB	SY		
				BEDDING MATERIAL	TON		
GEOWASTE MATERIAL	CY			GEOTEXTILE FAB	SY		
CONTAMINATED WASTE	CY			CLAYMAX	SY		
CLEAN	CY			GEOMEMBRANE	SY		
SLA	CY			CLAY	CY		
TOE TRENCH	CY			COMMON FILL	CY		
KEY TRENCH	CY			RIPRAP	TON		
RIPRAP	TON			MISC.			

MATERIALS RECEIVED:

TYPE	UNIT	EST.	QTY.	TYPE	UNIT	EST.	QTY.
SETTLEMENT PLATES	EA			GEOTEXTILE FAB	SY		
OBSERVATION WELLS	EA			BEDDING MATERIAL	CY		
AGGREGATES	CY			GEOMEMBRANE	SY		
CLAYMAX	CY			EQUIP. FUEL&LUBE	GAL		
CLAY				MISC.			
COMMON FILL				MISC.			
RIPRAP				MISC.			

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

MATERIALS LEAVING SITE:

DESCRIPTION	UNIT	EST.	QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS				
SANITARY WASTE	GALS				
DEBRI	TON				
USED OIL/LUBE.	GAL				
MISC.					

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
	YES NO		
	YES NO		
	YES NO		

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

Attached report required by Contract document

" " " " " "
" " " " " "
" " " " " "
" " " " " "

COMMENTS

TECHINICAL CONCERNS/PROBLEMS:

High Rain

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D"mod		
"D"	4	
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In: 1 Emps. Out: 1
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: _____

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1

2

Accident/Breeches Report: _____

ARCO Waste Site Daily Activity Report

Page 1

Date 12/19/90Contractor EBASCO SERVICES INC Site WELLSVILLE, NYProject SINCLAIR REFINERY

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>MIKE HRYWNAK-USCOE-NY</u>		

Contractor Personnel Type	#	Subcontractors (Name/Svcs.)	#	Major Equipment On-Site Operating (O)/Standby (S)	O/S
<u>RES. ENG</u>	<u>1</u>	<u>OHM</u>	<u>5</u>	<u>DOZER (1)</u>	<u>1/0</u>
		<u>LINER TECHNOLOGY</u>	<u>1</u>	<u>BACKHOE (1)</u>	<u>1/S</u>
		<u>GEOCOMP</u>	<u>1</u>	<u>LOADER (1)</u>	<u>1/0</u>
				<u>DECON FACIL (1)</u>	<u>1/S</u>

Health and Safety Issues TOP OF TEST FILL SLIPPERT
DUE TO THIN FILM OF ICE; VALLEYS COLLECTED
WATER WITH ICE FORMING ON TOP. DANGEROUS TO
WALK ON

Quality Control Issues LINER CAN NOT BE SEAMED WHERE
WATER IS COLLECTED OR WHEREVER THERE ARE
SOIL PILES

Problems and Concerns LINER WAS SAWN OR WELDED
AS BEST AS CONDITIONS PERMITTED. IT IS ADEQUATE
TO KEEP RUNOFF FROM GETTING CONTAMINATED

Resolution of Previous Problems/Concerns OHM REMOVED SOIL ON THE
EDGE OF THE LINER TO ENABLE SEAMING TO THE PIECE ON THE WELL. THE OBSERVATION
WELL EXTENSION IN SECT. 2 WAS INSTALLED ALTHOUGH EXTREME CAUTION
IS REQUIRED IF SOMEONE SHOULD WALK AROUND THAT WELL.

Comments ANYONE GOING ON THE TESTFILL SHOULD BE
CAUTIONED OF THE DANGERS. MIKE HRYWNAK OF
USCOE REQUESTED THAT THE 15 FEET X 100 FEET SECTION LEFT UNCOVERED
WITH PVC AT THE BOTTOM OF THE RAMP BE COVERED.

ARCO Waste Site Daily Activity Report

Page 2

Contractor EBASCO SERVICES INC. Site WELLSVILLE, NY Date 12/19/90

Sampling Activities Today	Quantity	Contractor	% Completed
NONE			

Major Activities Today (non-sampling)

SEAM LINER WHERE INSTALLED	LINER TECH	95%
INSTALL GAS MONITORING DEVICE } AND CHECK THERMISTORS	GEOCOMP	50%
DECON & DEMOB	OHM	100%

Major Activities Planned (next 5 working days)

COMPLETE SEAMING OF LINER	95%
COMPLETE INSTALLATION OF GAS MONITOR	50%
SHUTDOWN SITE FOR WINTER	0%

Summary Report SOILED EDGES OF LINER WAS CLEANED TO THE
EXTENT PRACTICABLE FOR SEAMING. A PIECE OF LINER
WAS INSTALLED WHERE REQUESTED BY THE USCOE - NY.
LINER WAS SEAMED AND PENETRATIONS ROOTED EXCEPT
WHERE ACCUMULATION OF WATER AND SOIL WAS EXCESSIVE.
IT MUST BE NOTED THAT IT IS DANGEROUS TO WALK ON
THE TEST FILL ESPECIALLY SECTIONS 2 AND 3 SINCE THE
LINER DOES NOT CONFORM TO THE UNEVEN SURFACE. FURTHERMORE,
IT IS EXTREMELY SLIPPERY DURING FROST CONDITIONS.
VISITORS MUST BE CAUTIONED

Site Manager D SIMPADIEN FOR G. STILESDate 12/19/90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: Dec 19 1990 DAY: WED HRS.WRK. 12 REPORT NO. _____

WEATHER INFORMATION:

TEMPERATURE: High _____ Low _____ WIND: Mph. _____ Dir. _____

PRECIPITATION: _____ HUMIDITY: _____

PERSONNEL: NON-MANUAL EBASCO C.M. _____ OHM.P.S. 1

F.E/I _____ P.M. _____

H&SO _____ HOP _____

C/SE _____ " _____

P.M. _____ " _____

HOP _____

" _____

" _____

ARCO P.M. _____

OTHERS _____ SUB. _____

" _____ SUPV. _____ EMPS _____

USCOE/EPA _____ SUB. _____

" _____ SUPV. _____ EMPS _____

VISITORS _____

MANUAL OHM Gen. Labor 2 EQUIP. OPER. 2

EQUIPMENT:	OPERATED(hrs)	IDLE/STAND-BY	DOWN	MISC.INFO.
Dozer D37P	<u>6</u>	<u>6</u>	_____	<u>Decon/Demolished</u>
Dozer	_____	_____	_____	_____
Back Hoe 400	<u>0</u>	<u>12</u>	_____	_____
Back Hoe 25	<u>0</u>	<u>0</u>	_____	<u>Decon/Demolished</u>
Compactor	_____	_____	_____	_____
Compactor	_____	_____	_____	_____
Dump Trk.	_____	_____	_____	_____
Dump Trk.	_____	_____	_____	_____
Others	_____	_____	_____	_____
Ladder	<u>9</u>	<u>3</u>	_____	<u>Deconed</u>
"	_____	_____	_____	_____

MEETINGS:

PLAN OF DAY Reshape drive entry @ Decon trailer / Mark out
Cont. Decon ops / Demolish of SRZ
Spread bedding stone pile
Complete TOE in of Liner
move Rip Rap pile to Support Zone, as per. DUEAN

SAFETY Slips/Trips/Falls, TASKS @ HAND, Demolish Schedule

SCHEDULED _____

UN-SCHEDULED _____

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION _____

SLA EXCAVATION: _____

WASTEPILE CONSTRUCTION: Complete TOE in of Liner

DIKE EXTENSION move Rip Rap pile to SZ, spread
stone pile

OTHER: "Reshape" drive @ SRZ entry
Cont Decon / Demolish ops

MATERIALS HANDLED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
CLEARING BRUSH	ACRE	_____	TESTFILL CONST.	CY	_____
EXCAVATION			AGGREGATES	TON	_____
			SETTLEMENT PLATES	EA	_____
			OBSERVATION WELLS	EA	_____
			GEOTEXTILE FAB	SY	✓
			BEDDING MATERIAL	TON	✓
GEOWASTE MATERIAL	CY	_____	GEOTEXTILE FAB	SY	_____
CONTAMINATED WASTE	CY	_____	CLAYMAX	SY	_____
CLEAN	CY	_____	GEOMEMBRANE	SY	_____
SLA	CY	_____	CLAY	CY	_____
TOE TRENCH	CY	_____	COMMON FILL	CY	_____
KEY TRENCH	CY	_____	RIPRAP	TON	_____
RIPRAP	TON	✓	MISC.	_____	_____

MATERIALS RECEIVED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
SETTLEMENT PLATES	EA	_____	GEOTEXTILE FAB	SY	_____
OBSERVATION WELLS	EA	_____	BEDDING MATERIAL	CY	_____
AGGREGATES	CY	_____	GEOMEMBRANE	SY	_____
CLAYMAX	CY	_____	EQUIP. FUEL&LUBE	GAL	_____
CLAY	_____	_____	MISC.	_____	_____
COMMON FILL	_____	_____	MISC.	_____	_____
RIPRAP	_____	_____	MISC.	_____	_____

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

_____**MATERIALS LEAVING SITE:**

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	_____	_____	_____
SANITARY WASTE	GALS	_____	_____	_____
DEBRI	TON	_____	_____	_____
USED OIL/LUBE.	GAL	_____	_____	_____
MISC.	_____	_____	_____	_____

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

Attached report required by Contract document

" " " " " "
" " " " " "
" " " " " "
" " " " " "

COMMENTS

TECHINICAL CONCERNS/PROBLEMS:

MUD

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D" mod	<u>2</u>	<u>10</u>
"D"	<u>4</u>	<u>35</u>
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In:	<u>2</u>	Emps. Out:	<u>2</u>
Equipment: In:	<u>2</u>	Out:	<u>2</u>
Venders Equipment: In:		Out:	

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1

2

Accident/Breeches Report:

ARCO Waste Site Daily Activity Report

Page 1

Date 12/20/90Contractor EBASCO SERVICES INC.Site WELLSVILLE, N.Y.Project SINCLAIR REFINERY

Agencies (Name/Agency)	Visitors (Name/Company)	Weather
<u>DORAN STUBBS - USCOE - BUF</u>		<u>26° LOW - 40° HIGH</u>

Contractor Personnel Type	#	Subcontractors (Name/Svcs.)	#	Major Equipment On-Site Operating (O)/Standby (S) O/S
<u>RES. ENG.</u>	<u>1</u>	<u>OHM</u>	<u>3</u>	<u>DECON FACIL 1/3</u>
		<u>LINER TECHNOLOGY</u>	<u>1</u>	<u>OTHERS DEMOBILIZED</u>
		<u>GEOCOMP</u>	<u>1</u>	

Health and Safety Issues NONEQuality Control Issues NONEProblems and Concerns NONEResolution of Previous Problems/Concerns NONEComments NONE

ARCO Waste Site Daily Activity Report

Page 2

Contractor EBASCO SERVICES INC. Site WELLSVILLE, NY Date 12/20/90

Sampling Activities Today	Quantity	Contractor	% Completed
NONE			

Major Activities Today (non-sampling)

COMPLETED SEAMING LINER			100%
COMPLETED INSTALLATION OF GAS MONITOR			100%
DEMOB EQUIPMENT			100%

Major Activities Planned (next 5 working days)

SHUT SITE FOR WINTER			

Summary Report ALL ACTIVITIES COMPLETEDSite Manager J SIMPADIEN FOR G. STILESDate 12/20/90

SINCLAIR REFINERY SITE

SLA RELOCATION; TESTFILL CONSTRUCTION AND DIKE EXTENSION

WELLSVILLE, NEW YORK

DAILY REPORT BY: OHM CORPORATION

DATE: 12/20/90 DAY: THURS HRS.WRK. _____ REPORT NO. _____

WEATHER INFORMATION:

TEMPERATURE: High _____ Low _____ WIND: Mph. _____ Dir. _____

PRECIPITATION: _____ HUMIDITY: _____

PERSONNEL: NON-MANUAL EBASCO C.M. _____ OHM.P.S. 1

F.E/I _____ P.M. _____

H&SO _____ HOP _____

C/SE _____ " _____

P.M. _____ " _____

HOP _____

" _____

" _____

ARCO P.M. _____

OTHERS _____ SUB. _____

" _____ SUPV. _____ EMPS _____

USCOE/EPA _____ SUB. _____

" _____ SUPV. _____ EMPS _____

VISITORS _____

MANUAL OHM Gen. Labor _____ EQUIP. OPER. 1

EQUIPMENT: OPERATED(hrs) IDLE/STAND-BY DOWN MISC.INFO.

Dozer _____

Dozer _____

Back Hoe _____

Back Hoe _____

Compactor _____

Compactor _____

Dump Trk. _____

Dump Trk. _____

Others _____

" _____

" _____

MEETINGS:

PLAN OF DAY Complete Site Demobe

SAFETY Hypothermia / TASKS @ HAND

SCHEDULED _____

UN-SCHEDULED _____

(Reference and attach additional pages if necessary)

ACTIVITIES: (Reference schedule activity number that relates)
TESTFILL CONSTRUCTION _____

SLA EXCAVATION: _____

WASTEPILE CONSTRUCTION: _____

DIKE EXTENSION _____

OTHER: Complete Site Demobe

MATERIALS HANDLED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
CLEARING BRUSH	ACRE	_____	TESTFILL CONST.	CY	_____
EXCAVATION			AGGREGATES	TON	_____
			SETTLEMENT PLATES	EA	_____
			OBSERVATION WELLS	EA	_____
			GEOTEXTILE FAB	SY	_____
			BEDDING MATERIAL	TON	_____
GEOWASTE MATERIAL	CY	_____	GEOTEXTILE FAB	SY	_____
CONTAMINATED WASTE	CY	_____	CLAYMAX	SY	_____
CLEAN	CY	_____	GEOMEMBRANE	SY	_____
SLA	CY	_____	CLAY	CY	_____
TOE TRENCH	CY	_____	COMMON FILL	CY	_____
KEY TRENCH	CY	_____	RIPRAP	TON	_____
RIPRAP	TON	_____	MISC.	_____	_____

MATERIALS RECEIVED:

TYPE	UNIT	EST. QTY.	TYPE	UNIT	EST. QTY.
SETTLEMENT PLATES	EA	_____	GEOTEXTILE FAB	SY	_____
OBSERVATION WELLS	EA	_____	BEDDING MATERIAL	CY	_____
AGGREGATES	CY	_____	GEOMEMBRANE	SY	_____
CLAYMAX	CY	_____	EQUIP. FUEL&LUBE	GAL	_____
CLAY	_____	_____	MISC.	_____	_____
COMMON FILL	_____	_____	MISC.	_____	_____
RIPRAP	_____	_____	MISC.	_____	_____

REFERENCE TEST REPORTS/VENDOR CERTS. FOR EACH MATERIAL.

_____**MATERIALS LEAVING SITE:**

DESCRIPTION	UNIT	EST. QTY.	CONTAMINATED	INSPECTED BY
TRASH	LBS	_____	_____	_____
SANITARY WASTE	GALS	_____	_____	_____
DEBRI	TON	_____	_____	_____
USED OIL/LUBE.	GAL	_____	_____	_____
MISC.	_____	_____	_____	_____

EQUIPMENT ENTERING SITE:

DESCRIPTION	INSPECTED	DECON CERTS.	APPROVED BY
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____
_____	YES _____ NO _____	_____	_____

SAMPLING & ANALYSIS ACTIVITIES:

REPORT NUMBERS

Attached report required by Contract document

" " " " " "
" " " " " "
" " " " " "
" " " " " "

COMMENTS

TECHINICAL CONCERNS/PROBLEMS:

HEALTH & SAFETY

ACTIVITY PROTECTION LEVELS:

Level	Number of Employees	Total manhours exposed
CLEAN:		
"D"mod		
"D"	2	
"C"		
"B"		
OTHER		

DECONTAMINATION REQUIREMENTS:

Personnel: Emps. In: _____ Emps. Out: _____
Equipment: In: _____ Out: _____
Venders Equipment: In: _____ Out: _____

ACCIDENTS/BREECHES OF PROCEDURES:

No. Time Location Emp.No./Equip.No. Injury/damage Response

1 _____
2 _____

Accident/Breeches Report: _____

APPENDIX C

ROD CRITERIA COMPOUNDS ANALYSIS RESULTS

The results were sent to USEPA on March 14, 1991
for their review and acceptance prior to
backfilling the SLA area.

Analyte	Criteria	A	B	C	Duplicate	D	E	F	G	H	I	J	K	L	M
Priority Volatile Organics (ppb)															
Benzene	24	7U	8U	8U	8U	17U	7U	7U	12J	6UJ	6UJ	7UJ	6UJ	6UJ	6UJ
Chlorobenzene	36	7U	8U	8U	8U	17U	7U	7U	7UJ	6UJ	6UJ	7UJ	650UJ	6UJ	6UJ
trans-1,2-Dichloroethylene	325	7U	8U	8U	8U	17U	7U	7U	7UJ	6UJ	6UJ	7UJ	6UJ	6UJ	6UJ
1,1,2,2-Tetrachloroethane	5	7UJ	8UJ	8UJ	8UJ	17UJ	7UJ	7U	7UJ	6UJ	6UJ	7UJ	650UJ	6UJ	6UJ
Toluene	72	7U	8U	8U	8U	17U	7U	7U	27J	6UJ	6UJ	7UJ	650UJ	6UJ	6UJ
Vinyl Chloride	207	13U	16U	16U	16U	33U	13U	13U	13UJ	12UJ	12UJ	13UJ	12UJ	12UJ	12UJ
Priority Base/Neutral Extractables															
Fluoranthene	91	840UJ	900U	5600UR	5400UR	960U	880U	900UJ	830U	830U	860UR	130J	810UR	790U	870U
Phenolics															
Total Recoverable Phenols	19	800U	1000J	1800J	1600J	1200J	1400J	1500J	800U	700U	700U	800U	700U	700U	700U
Priority Metals															
Arsenic	15,000	8,300J	17,000J	9,600J	13,000J	5,000J	5,900J	10,000J	13,000J	12,000J	5,800J	16,000J	5,200J	15,000J	6,800J
Copper	9,700	14,000J	7,700J	28,000J	19,000J	10,000J	11,000J	13,000J	10,000	27,000	11,000	30,000	11,000	8,900	12,000
Nickel	26,300	19,000J	17,000J	15,000J	12,000J	21,000J	16,000J	16,000J	17,000	22,000	19,000	21,000	20,000	16,000	12,000
Selenium	ND	800UJ	800UJ	1,000UJ	1,000UJ	900UJ	800UJ	800UJ	900UJ	800UJ	900UJ	1000UJ	800UJ	800UJ	800UJ
Silver	600	600UJ	600UJ	800UJ	800UJ	700UJ	600UJ	600UJ	600U	600U	600U	600U	600U	600U	600U
Zinc	53,000	55,000J	51,000J	61,000J	56,000J	70,000J	63,000J	56,000J	49,000J	63,000J	50,000J	56,000J	48,000J	46,000J	37,000J
Priority Pesticides															
Chlordane	4	200U	210U	260U	250U	220U	210U	200U	1900U	1800U	2000U	210U	1900U	180U	200U
4,4'-DDD	0.6	39U	41U	52U	49U	44U	41U	41U	380U	370U	390U	42U	370U	36U	40U
4,4'-DDE	8.4	39U	41U	52U	49U	44U	41U	41U	380U	370U	390U	42U	370U	36U	40U
Polychlorinated Biphenyls															
PCBs	12.1	200U	210U	260U	250U	220U	210U	200U	1900U	1800U	2000U	210U	1900U	180U	200U
Non priority Volatile Organics															
Cyclohexane	1,345	-	-	-	-	-	-	-	-	16JN	-	-	-	-	-
Methylcyclohexane	2,500	-	-	-	-	-	-	-	870JN	1100JN	120JN	-	220JN	-	-
Methyl-1-pentene	995	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene	637	78	8U	320	330	72	7U	7U	19700JN	600UJ	620JN	7UJ	1100J	6UJ	6UJ
Non priority Base/Neutral Extractables															
Heptadecane	181,950	2,970JN	790JN	-	-	-	-	-	2,900JN	6,000JN	-	-	-	-	-
Hexadecane	227,408	11,00JN	550JN	2,800JN	-	18,100JN	3,300JN	3,100JN	-	3,200JN	-	620JN	-	-	-
Octadecane	167,163	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentadecane	332,945	-	-	1,600JN	-	-	-	-	-	-	-	-	-	-	1,290JN

Key to Qualifiers listed

U = Not detected. Value preceding U is the detection limit.

J = Estimated Value.

M = Presumptive evidence indicates the presence of this compound.

R = Rejected Value.

- = Not detected. Detection limit uncertain, however it can be inferred from the raw data to be well below the ROD criterion.

Note: Two detection limits are listed for the PCBs. The higher limit corresponds to PCB aroclors 1260 and 1254, whereas the lower limit applies to all other PCB aroclors.

APPENDIX D

- o TPH ANALYSIS RESULTS OF EXCAVATED SOIL FROM DIKE
KEY TRENCH
- o TCL VOCs, TCL BNAS AND TCL METALS ANALYSIS
RESULTS OF DIKE FOUNDATION SOIL

Canonie Environmental

August 23, 1990

RECEIVED

AUG 24 1990

THOMAS GRANGER
EBASCO SERVICES INC.

Mr. Thomas Granger
EBASCO Environmental
160 Chubb Avenue
Lyndhurst, NJ 07071-3586

Canonie Environmental Services Corp.
500 North Gulph Road - Suite 315
King of Prussia, Pennsylvania 19406

Phone: 215-337-2551
Fax: 215-337-0560
88-093

Transmittal
Total Petroleum Hydrocarbon Results for Key Trench Fill
Sinclair Refinery Site
Wellsville, New York

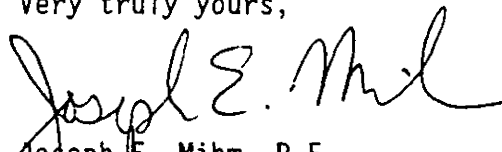
Dear Mr. Granger:

Canonie Environmental Services Corp. (Canonie) herein submits the results of laboratory analyses for the identification of contaminated and waste material excavated from the key trench. The material was analyzed to confirm if soils were above the 5 percent total petroleum hydrocarbon (TPH) limit, as specified in Section 02260 of the project documents. The material was sampled per Section 3.1 of the Sampling and Analysis Plan.

All but one of the samples were below the 5 percent TPH; Sample SD-TS12-01 was found to be in excess of the 5 percent TPH.

If there are any further questions, please contact Alan Muellerleile, Project Engineer, at (716) 593-7066 or me at (215) 337-2551.

Very truly yours,


Joseph E. Mihm, P.E.
Project Manager

JEM/bam

Attachment

cc: Dave Dekker, Canonie
Alan Muellerleile, Canonie

CHEMICAL TESTING

KEY TRENCH EXCAVATION MATERIAL

	<u>Page</u>
Chain of Custody	A-01
<u>TPH Analysis of:</u>	
SD-TS02-01	A-02
SD-TS03-01	A-03
SD-TS04-01	A-04
SD-TS05-01	A-05
SD-TS06-01	A-06
SD-TS07-01	A-07
SD-TS08-01	A-08
SD-TS09-01	A-09
SD-TS10-01	A-10
SD-TS11-01	A-11
SD-TS11-01D	A-12
SD-TS12-01	A-13

CANONIE ENVIRONMENTAL CHAIN-OF-CUSTODY RECORD

(See Reverse Instructions)

LAB PROJECT

9370

PROJECT NAME PRCP Wausville

SAMPLERS PETE F. PORTER

PROJECT NUMBER 18-093

RECORDER F. Porter

SAMPLE CONTAINER DESCRIPTION CODES

A. 40-ml VOA Vial
B. Glass Liter
C. Plastic 500-ml
D. Plastic Liter
E. Brass Tube
F. Other SEE
Notes

SAMPLE DESCRIPTION CODES

A. Ground Water
B. Surface Water
C. Leachate
D. Rinseate
E. Soil/Sediment
F. Oil
G. Waste
H. Blank/Spike
I. Other

TAT CODES

1. Standard
2. 48 Hour
3. 24 Hour
4. Other

DATE	TIME	SAMPLE ID	Sample Container (enter code)	Sample Description (enter code)	NUMBER OF CONTAINERS AND PRESERVATION			Field Filtered (Check)	ANALYSIS REQUESTED										TAT Requested (enter code)	Maximum Holding Time for Method Requested	Sample Stored at 4°C (Check)	No VOA Requested (Check)	NOTES	LABORATORY USE ONLY		
					Unpreserved	HNO ₃	HCL																	ASSIGNED BOTTLE NUMBERS	SAMPLE CONDITION UPON RECEIPT	NOTES
8/14	8:15	SD-T302-01 (Sta 9+30)	F	E					X										3	10 DA	X	X		853372A	4°C	
	8:40	SD-T303-01 (Sta 9+00)	F	E					X										3		X	X		853373A		
	9:03	SD-T304-01 (Sta 8+50)	F	E					X										3		X	X		853374A		
	9:18	SD-T305-01 (Sta 8+00)	F	E					X										3		X	X		853375A		
	9:54	SD-T306-01 (Sta 7+50)	F	E					X										3		X	X		853376A		
	10:10	SD-T307-01 (Sta 7+00)	F	E					X										3		X	X		853377A		
	10:32	SD-T308-01 (Sta 6+50)	F	E					X										3		X	X		853378A		
	10:40	SD-T309-01 (Sta 6+00)	F	E					X										3		X	X		853379A		
	11:12	SD-T310-01 (Sta 5+50)	F	E					X										3		X	X		853380A		
	11:40	SD-T311-01 (Sta 5+00)	F	E					X										3		X	X		853381A		
	13:40	SD-T312-01 (Sta 7+25)	F	E					X										2		X	X		853382A		
8/14	13:05	SD-FB02-01	B	D					X															853383A		
8/14	11:44	SD-T311-010 (Sta 5+00)	F	E					X															853384A		

NOTES / MISCELLANEOUS

(1) 802 JAR - 1 FOR EACH ANALYSIS REQUESTED
(2) GROUP TESTS BY ADJACENT STA. #'S

Relinquished By: (Signature)

Received By: (Signature)

Date

Time

Relinquished By: (Signature)

Received By: (Signature)

Date

Time

Relinquished By: (Signature)

Received By: (Signature)

Date

Time

Method of Shipment

FEDEX PRIORITY

OVERNIGHT

#459777355

Description of Transport Container

COOLER

Other Chains-Of-Custody Transported with this Chain (by Serial No.)

Dispatched By: (Signature)

Date

8/14/90

Time

18:40

Received for lab By: (Signature)

Colleen D. [Signature]

Date

8/15/90

Time

8:50

Send Lab Results to (Name): Joe Cupford

(Check Office Below)

Verbals Requested: Yes ☒ No ☐

☐ PORTER
TEL (219) 926-8651
FAX (219) 926-7169

☐ SAN-MATEO
TEL (415) 573-8012
FAX (415) 573-5654

☐ IRVINE
TEL (714) 757-1755
FAX (714) 757-0960

☐ ORLANDO
TEL (407) 856-7428
FAX (407) 855-2595

☐ OTHER
TEL
FAX

☐ DENVER
TEL (303) 790-1747
FAX (303) 799-0186

☒ KING OF PRUSSIA
TEL (215) 337-2551
FAX (215) 337-0560

☐ HOUSTON
TEL (713) 556-1666
FAX (713) 556-0666

☐ MT. VIEW
TEL (415) 960-1640
FAX (415) 960-0739

☐ OTHER
TEL
FAX

CANONIE ENVIRONMENTAL LABORATORY • 212 FRANK WEST CIRCLE, SUITE A • STOCKTON, CA 95206 • TEL (209) 983-1340 • FAX (209) 983-0304

SERIAL NO.

03266

WHITE: Field Copy

YELLOW: Project Copy

PINK: Laboratory Copy

Final Report

Page: 1

Client: PRCP WELLSVILLE
Sample ID: SD-TS02-01(STA9+50)
Matrix: SOLID
Lab ID: 853372-SA-A
Project #: 88-093
Starting Depth: 0.00
Percent Solids: 82.7 %

LP #: 9371

Date Sampled: 8/14/1990
Date Received: 8/15/1990
Q.C. Batch #: I081590JG1
Date Analyzed: 8/15/1990
Date Reported: 8/16/1990
Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	16000.	600.	mg/kg	EPA 9071

Tested By : JWG
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Final Report

Page: 2

Client: PRCP WELLSVILLE
Sample ID: SD-TS03-01(STA9+00)
Matrix: SOLID
Lab ID: 853373-SA-A
Project #: 88-093
Starting Depth: 0.00
Percent Solids: 80.5 %

LP #: 9371

Date Sampled: 8/14/1990
Date Received: 8/15/1990
Q.C. Batch # : I081590JG1
Date Analyzed: 8/15/1990
Date Reported: 8/16/1990
Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	7200.	620.	mg/kg	EPA 9071

Tested By : JWG
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Final Report

Page: 3

Client: PRCP WELLSVILLE
Sample ID: SD-TS04-01(STA8+50)
Matrix: SOLID
Lab ID: 853374-SA-A
Project #: 88-093
Starting Depth: 0.00
Percent Solids: 84.0 %

LP #: 9371

Date Sampled: 8/14/1990
Date Received: 8/15/1990
Q.C. Batch # : I081590JG1
Date Analyzed: 8/15/1990
Date Reported: 8/16/1990
Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	2600.	600.	mg/kg	EPA 9071

Tested By : JWG
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Canonie Environmental

Final Report

Page: 4

Client: PRCP WELLSVILLE
Sample ID: SD-TS05-01(STA8+00)
Matrix: SOLID
Lab ID: 853375-SA-A
Project #: 88-093
Starting Depth: 0.00
Percent Solids: 71.5 %

LP #: 9371

Date Sampled: 8/14/1990
Date Received: 8/15/1990
Q.C. Batch # : I081590JG1
Date Analyzed: 8/15/1990
Date Reported: 8/16/1990
Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	1200.	700.	mg/kg	EPA 9071

Tested By : JWG
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Canonie Environmental

Final Report

Page: 5

Client: PRCP WELLSVILLE	Date Sampled: 8/14/1990
Sample ID: SD-TS06-01(STA7+50)	Date Received: 8/15/1990
Matrix: SOLID	Q.C. Batch # : I081590JG1
Lab ID: 853376-SA-A	Date Analyzed: 8/15/1990
Project #: 88-093	Date Reported: 8/16/1990
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 82.3 %	
LP #: 9371	

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	12000.	610.	mg/kg	EPA 9071

Tested By : JWG
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

CanonieEnvironmental

Final Report

Page: 6

Client: PRCP WELLSVILLE
Sample ID: SD-TS07-01(STA7+00)
Matrix: SOLID
Lab ID: 853377-SA-A
Project #: 88-093
Starting Depth: 0.00
Percent Solids: 83.0 %

LP #: 9371

Date Sampled: 8/14/1990
Date Received: 8/15/1990
Q.C. Batch # : I081590JG1
Date Analyzed: 8/15/1990
Date Reported: 8/16/1990
Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	10000.	600.	mg/kg	EPA 9071

Tested By : JWG
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

CanonieEnvironmental

Final Report

Page: 7

Client: PRCP WELLSVILLE
Sample ID: SD-TS08-01(STA6+50)
Matrix: SOLID
Lab ID: 853378-SA-A
Project #: 88-093
Starting Depth: 0.00
Percent Solids: 80.5 %

LP #: 9371

Date Sampled: 8/14/1990
Date Received: 8/15/1990
Q.C. Batch # : I081590JG1
Date Analyzed: 8/15/1990
Date Reported: 8/16/1990
Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	5700.	620.	mg/kg	EPA 9071

Tested By : MMS
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

CanonieEnvironmental

Final Report

Page: 8

Client: PRCP WELLSVILLE
Sample ID: SD-TS09-01(STA6+00)
Matrix: SOLID
Lab ID: 853379-SA-A
Project #: 88-093
Starting Depth: 0.00
Percent Solids: 84.4 %

LP #: 9371

Date Sampled: 8/14/1990
Date Received: 8/15/1990
Q.C. Batch # : I081590JG1
Date Analyzed: 8/15/1990
Date Reported: 8/16/1990
Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	19000.	590.	mg/kg	EPA 9071

Tested By : JWG
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

CanonieEnvironmental

Final Report

Page: 9

Client: PRCP WELLSVILLE
Sample ID: SD-TS10-01(STA5+50)
Matrix: SOLID
Lab ID: 853380-SA-A
Project #: 88-093
Starting Depth: 0.00
Percent Solids: 80.1 %

LP #: 9371

Date Sampled: 8/14/1990
Date Received: 8/15/1990
Q.C. Batch # : I081590JG1
Date Analyzed: 8/15/1990
Date Reported: 8/16/1990
Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	5100.	620.	mg/kg	EPA 9071

Tested By : JWG
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

CanonieEnvironmental

Final Report

Page: 10

Client: PRCP WELLSVILLE
Sample ID: SD-TS11-01(STA5+00)
Matrix: SOLID
Lab ID: 853381-SA-A
Project #: 88-093
Starting Depth: 0.00
Percent Solids: 79.5 %

LP #: 9371

Date Sampled: 8/14/1990
Date Received: 8/15/1990
Q.C. Batch # : I081590JG1
Date Analyzed: 8/15/1990
Date Reported: 8/16/1990
Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	6000.	630.	mg/kg	EPA 9071

Tested By : JWG
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

CanonieEnvironmental

Final Report

Page: 13

Client: PRCP WELLSVILLE
Sample ID: SD-TS11-01D(STA5+00)
Matrix: SOLID
Lab ID: 853384-SA-
Project #: 88-093
Starting Depth: 0.00
Percent Solids: 77.9%

LP #: 9371

Date Sampled: 8/14/1990
Date Received: 8/15/1990
Q.C. Batch # : I081590JG2
Date Analyzed:
Date Reported: 8/16/1990
Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	8100.	640.	mg/kg	EPA 9071

Tested By : JWG
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Final Report

Page: 11

Client: PRCP WELLSVILLE
Sample ID: SD-TS12-01(STA7+25)
Matrix: SOLID
Lab ID: 853382-SA-A
Project #: 88-093
Starting Depth: 0.00
Percent Solids: 78.4 %

LP #: 9371

Date Sampled: 8/14/1990
Date Received: 8/15/1990
Q.C. Batch # : I081590JG1
Date Analyzed: 8/15/1990
Date Reported: 8/16/1990
Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Inorganic Analysis

Analyte	Result*	Reporting Limit	Units	Method
Oil & Grease	.278000.	640.	mg/kg	EPA 9071

Tested By : JWG
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

CanonieEnvironmental

Canonie Environmental

October 9, 1990

RECEIVED

OCT 11 1990

THOMAS GRANGER
EBASCO SERVICES INC.

Mr. Thomas Granger
EBASCO Environmental
160 Chubb Avenue
Lyndhurst, NJ 07071-3586

Canonie Environmental Services Corp.
500 North Gulph Road - Suite 315
King of Prussia, Pennsylvania 19406

Phone: 215-337-2551

Fax: 215-337-0560

88-093

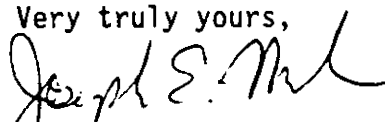
Transmittal
Chemical Laboratory Results for Key Trench Fill
Partial River Channelization Project
Sinclair Refinery Site
Wellsville, New York

Dear Mr. Granger:

Canonie Environmental Services Corp. (Canonie) herein submits the results of laboratory analyses for the sampling, which took place during the trenching operations performed at the above referenced project. The testing was performed in accordance with Section 3.1.2 of the Sampling and Analysis Plan. The attached Table 1 indicates on which page specified data can be located.

If you have any questions, please contact me at (215) 337-2551.

Very truly yours,


Joseph E. Mihm, P.E.
Project Manager

JEM/pg

Attachments

TABLE 1

CHEMICAL LABORATORY RESULTS FOR KEY TRENCH FILL

<u>Description</u>			<u>Page</u>
Chain-of-Custody (No. 9348)			A-1
Chain-of-Custody (No. 9372)			A-2
<u>Sample ID</u>	<u>Test</u>	<u>Method</u>	<u>Page</u>
SD-TS01-01	Volatile Organic Compounds	8240	A-3
SD-TS01-01	Semi-Volatile Organic Compounds	8270	A-4
SD-TS01-01	Inorganic Compounds	6010/7000s	A-6
SD-FB01-01	Volatile Organic Compounds	8240	A-7
SD-FB01-01	Semi-Volatile Organic Compounds	8270	A-8
SD-FB01-01	Inorganic Compounds	6010/7000s	A-10
SD-TB01-01	Volatile Organic Compounds	8240	A-11
SD-TS06-01	Volatile Organic Compounds	8240	A-12
SD-TS06-01	Semi-Volatile Organic Compounds	8270	A-13
SD-TS06-01	Inorganic Compounds	6010/7000s	A-15
SD-TS11-01	Volatile Organic Compounds	8240	A-16
SD-TS11-01	Semi-Volatile Organic Compounds	8270	A-17
SD-TS11-01	Inorganic Compounds	6010/7000s	A-19
SD-FB02-01	Volatile Organic Compounds	8240	A-20
SD-FB02-01	Semi-Volatile Organic Compounds	8270	A-21
SD-FB02-01	Inorganic Compounds	6010/7000s	A-23
SD-TB02-01	Volatile Organic Compounds	8240	A-24
SD-TS11-01D	Volatile Organic Compounds	8240	A-25
SD-TS11-01D	Semi-Volatile Organic Compounds	8270	A-26
SD-TS11-01D	Inorganic Compounds	6010/7000s	A-28

CANONIE ENVIRONMENTAL CHAIN-OF-CUSTODY RECORD

LAB PROJECT

(See Reverse)

Instructions

853237A → 853239A

9320

PROJECT NAME PRCP Wastewater

SAMPLERS FRANK GENTILEWSKI

PROJECT NUMBER 11-232

RECORDER

SAMPLE CONTAINER DESCRIPTION CODES

- A 40 ml VOA Vial
- B Glass Liter
- C Plastic 500 ml
- E Brass Tube
- F Other

SAMPLE DESCRIPTION CODES

- A Ground Water
- B Surface Water
- C Leachate
- D Rinseate
- E Soil/Sediment
- F Oil
- G Waste
- H Blank/Spike
- I Other

LAB CODES

- 1 Standard
- 2 48 Hour
- 3 24 Hour
- 4 Other

DATE	TIME	SAMPLE ID	Sample Container (enter code)	Sample Description (enter code)	NUMBER OF CONTAINERS AND PRESERVATION		ANALYSIS REQUESTED	Notes	LABORATORY USE ONLY		
					Underline	HNO ₃			ASSIGNED BOTTLE NUMBERS	SAMPLE CONDITION UPON RECEIPT	NOTES
8/1/90	1:00	SD-TSC1-01	FE	4			X		853237HBCD		
8/1/90	1:00	SD-FB01-01	BD			1	X		853238A		
8/1/90	1:00	SD-FB01-01	AD			2	X		BC		
8/1/90	1:00	SD-FB01-01	FD			1	X		D		
8/1/90	1:00	SD-FB01-01	BD			4	X		EE6H		
8/1/90	1:00	SD-FB01-01	XX				X				
8/1/90	1:00	SD-TB01-01	EH			1	X		853239A		

NOTES/MISCELLANEOUS

- (1) 1-819 Glass Jar: 1 For Each Analysis Requested
- (2) TRB Bikes Prepared 8/1/90 13:00
- (3) Call The Frame Shop For In An 800 ml Vial

Receipt Temp 6°C
custody seal intact

Relinquished By: (Signature)

Relinquished By: (Signature)

Relinquished By: (Signature)

Received By: (Signature)

Received By: (Signature)

Received By: (Signature)

Date Time

Date Time

Date Time

Method of Shipment	Description of Transport Container	Other Chains-Of-Custody Transported with this Chain (by Serial No.)	Dispatched By: (Signature)	Date	Time	Received for Lab By: (Signature)	Date	Time
FEDEX Priority #4592991322	CYCLER		FE	8/1/90	18:30	W. H. H.	8/10/90	10:20

Send Lab Results to (Name): JOE CLEGGARD / FRANK GENTILEWSKI (Check Office Below) Verbal Requested: Yes ☒ No ☐

☐ PORTER
TEL (219) 926-8851
FAX (219) 926-7169

☐ DENVER
TEL (303) 790-1747
FAX (303) 799-0186

☐ SAN MATEO
TEL (415) 573-8012
FAX (415) 573-5854

☒ KING OF PRUSSIA
TEL (215) 337-2551
FAX (215) 337-0580

☐ IRVINE
TEL (714) 757-1755
FAX (714) 757-0980

☐ HOUSTON
TEL (713) 556-1886
FAX (713) 556-0668

☐ ORLANDO
TEL (407) 858-7428
FAX (407) 855-2595

☐ MT. VIEW
TEL (415) 980-1640
FAX (415) 980-0739

☐ OTHER
TEL _____
FAX _____

☐ OTHER
TEL _____
FAX _____

CANONIE ENVIRONMENTAL LABORATORY • 212 FRANK WEST CIRCLE, SUITE A • STOCKTON, CA 95206 • TEL (209) 983-1340 • FAX (209) 983-0304

SERIAL NO

03318

WHITE: Field Copy

YELLOW: Project Copy

PINK: Laboratory Copy

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-TS01

Lab Name: Canonic Labs

Contract: NA

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: ~~1601~~ SD-FBC1-01

Matrix: (soil/water) SOIL

Lab Sample ID: 853237

PZ

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: >CA012

7/6/90

Level: (low/med) LOW

Date Received: 08/10/90

% Moisture: not dec. 36

Date Analyzed: 08/22/90

Column: (pack/cap) CAP

Dilution Factor: ~~1.51~~ 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Q

DEC
9/8/90

74-87-3	Chloromethane	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	12	B
67-64-1	Acetone	45+8	X
75-15-0	Carbon Disulfide	8.0	U
75-35-4	1,1-Dichloroethene	8.0	U
75-34-3	1,1-Dichloroethane	8.0	U
540-59-0	1,2-Dichloroethene (total)	8.0	U
67-66-3	Chloroform	8.0	U
107-02-2	1,2-Dichloroethane	8.0	U
78-93-3	2-Butanone	16	U
71-55-6	1,1,1-Trichloroethane	8.0	U
56-23-5	Carbon Tetrachloride	8.0	U
108-05-4	Vinyl Acetate	16	U
75-27-4	Bromodichloromethane	8.0	U
78-87-5	1,2-Dichloropropane	8.0	U
10061-01-5	cis-1,3-Dichloropropene	8.0	U
79-01-6	Trichloroethene	8.0	U
124-48-1	Dibromochloromethane	8.0	U
79-00-5	1,1,2-Trichloroethane	8.0	U
71-43-2	Benzene	8.0	U
10061-02-6	trans-1,3-Dichloropropene	8.0	U
75-25-2	Bromoform	8.0	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	8.0	U
79-34-5	1,1,2,2-Tetrachloroethane	8.0	U
108-88-3	Toluene	8.0	U
108-90-7	Chlorobenzene	8.0	U
100-41-4	Ethylbenzene	8.0	U
100-42-5	Styrene	8.0	U
133-02-7	Xylene (total)	8.0	U

DEC
7/8/90

18
 SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Canonic Environmental

Contract: NA

SD-TS01-01

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: SD-FB01

Matrix: (soil/water) SOIL

Lab Sample ID: 853237/9348

Sample wt/vol: 30 (g/mL) G

Lab File ID: 8BA021

Level: (low/med) LOW

Date Received: 08/10/90

% Moisture: not dec.36 dec. NA

Date Extracted: 08/17/90

Extraction: (Sepf/Cont/Sonc) SONC

Date Analyzed: 8/23/90

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
108-95-2	Phenol	1000.	U D
111-44-4	bis(2-Chloroethyl)Ether	1000.	U D
95-57-8	2-Chlorophenol	1000.	U D
541-73-1	1,3-Dichlorobenzene	1000.	U D
106-46-7	1,4-Dichlorobenzene	1000.	U D
100-51-6	Benzyl alcohol	1000.	U D
95-50-1	1,2-Dichlorobenzene	1000.	U D
95-48-7	2-Methylphenol	1000.	U D
33638-32-9	bis(2-chloroisopropyl)ether	1000.	U D
106-44-5	4-Methylphenol	1000.	U D
621-64-7	N-Nitroso-Di-n-propylamine	1000.	U D
67-72-1	Hexachloroethane	1000.	U D
98-95-3	Nitrobenzene	1000.	U D
78-59-1	Isophorone	1000.	U D
88-75-5	2-Nitrophenol	1000.	U D
105-67-9	2,4-Dimethylphenol	1000.	U D
65-85-0	Benzoic acid	5200.	U D
111-91-1	bis(2-Chloroethoxy)methane	1000.	U D
120-83-2	2,4-Dichlorophenol	1000.	U D
120-82-1	1,2,4-Trichlorobenzene	1000.	U D
91-20-3	Naphthalene	1000.	U D
106-47-8	4-Chloroaniline	1000.	U D
87-68-3	Hexachlorobutadiene	1000.	U D
59-50-7	4-Chloro-3-methylphenol	1000.	U D
91-57-6	2-Methylnaphthalene	1000.	U D
77-47-4	Hexachlorocyclopentadiene	1000.	U D
88-06-2	2,4,6-Trichlorophenol	1000.	U D
95-95-4	2,4,5-Trichlorophenol	5200.	U D
91-58-7	2-Chloronaphthalene	1000.	U D
88-74-4	2-Nitroaniline	5200.	U D
131-11-3	Dimethylphthalate	1000.	U D
208-96-8	Acenaphthylene	1000.	U D
606-20-2	2,6-Dinitrotoluene	1000.	U D

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-TS01-01

Lab Name: Canonie Environmental

Contract: NA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: SD-FB01

Matrix: (soil/water) SOIL

Lab Sample ID: 853237/9348

Sample wt/vol: 30 (g/mL) G

Lab File ID: 28A021

Level: (low/med) LOW

Date Received: 08/10/90

% Moisture: not dec.36 dec. NA

Date Extracted: 08/17/90

Extraction: (Sepf/Cont/Sonc) SONC

Date Analyzed: 8/23/90

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
99-09-2-----	3-Nitroaniline_____	5200.	1U D
83-32-9-----	Acenaphthene_____	1000.	1U D
51-28-5-----	2,4-Dinitrophenol_____	5200.	1U D
100-02-7-----	4-Nitrophenol_____	5200.	1U D
132-64-9-----	Dibenzofuran_____	1000.	1U D
121-14-2-----	2,4-Dinitrotoluene_____	1000.	1U D
84-66-2-----	Diethylphthalate_____	1000.	1U D
7005-72-3-----	4-Chlorophenyl-phenylether_____	1000.	1U D
96-73-7-----	Fluorene_____	1000.	1U D
100-01-6-----	4-Nitroaniline_____	5200.	1U D
534-52-1-----	4,6-Dinitro-2-methylphenol_____	5200.	1U D
86-30-6-----	N-Nitrosodiphenylamine (1)_____	1000.	1U D
101-55-3-----	4-Bromophenyl-phenylether_____	1000.	1U D
118-74-1-----	Hexachlorobenzene_____	1000.	1U D
87-86-5-----	Pentachlorophenol_____	5200.	1U D
85-01-8-----	Phenanthrene_____	1000.	1U D
120-12-7-----	Anthracene_____	1000.	1U D
84-74-2-----	Di-n-butylphthalate_____	1000.	1U D
206-44-0-----	Fluoranthene_____	1000.	1U D
129-00-0-----	Pyrene_____	1000.	1U D
85-68-7-----	Butylbenzylphthalate_____	1000.	1U D
91-94-1-----	3,3'-Dichlorobenzidine_____	2100.	1U D
56-55-3-----	Benzo(a)anthracene_____	1000.	1U D
218-01-9-----	Chrysene_____	1000.	1U D
117-81-7-----	bis(2-Ethylhexyl)phthalate_____	1000.	1U D
117-84-0-----	Di-n-octylphthalate_____	1000.	1U D
205-99-2-----	Benzo(b)fluoranthene_____	1000.	1U D
207-08-9-----	Benzo(k)fluoranthene_____	1000.	1U D
50-32-8-----	Benzo(a)pyrene_____	1000.	1U D
193-39-5-----	Indeno(1,2,3-cd)pyrene_____	1000.	1U D
53-70-3-----	Dibenzo(a,h)anthracene_____	1000.	1U D
191-24-2-----	Benzo(g,h,i)perylene_____	1000.	1U D

(1) - Cannot be separated from Diphenylamine

1
INORGANIC ANALYSIS DATA SHEET

853237

b Name: CANONIE ENVIRONMENTAL

Contract:

Lab Code: 9348

Case No.:

SAS No.:

SDG No.: LP9348

Matrix (soil/water): SOIL

Lab Sample ID: 853237

Level (low/med): LOW

Date Received: 08/10/90

% Solids: 63.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11600	-	-	P
7440-36-0	Antimony	5.8	U	N	P
7440-38-2	Arsenic	6.4			F
7440-39-3	Barium	154			P
7440-41-7	Beryllium	0.63	B		P
7440-43-9	Cadmium	1.9			P
7440-70-2	Calcium	1280	B	E	P
7440-47-3	Chromium	12.7			P
7440-48-4	Cobalt	9.4	B		P
7440-50-8	Copper	15.3			P
7439-89-6	Iron	20400			P
7439-92-1	Lead	22.1			F
7439-95-4	Magnesium	2670			P
7439-96-5	Manganese	174			P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	18.1			P
7440-09-7	Potassium	1060	B		P
7782-49-2	Selenium	0.53	B		F
7440-22-4	Silver	1.1	U	N	P
7440-23-5	Sodium	141	B		P
7440-28-0	Thallium	0.28	U		F
7440-62-2	Vanadium	13.6	B		P
7440-66-6	Zinc	74.9			P
	Cyanide				NR

Color Before: BLACK

Clarity Before:

Texture: COARSE

Color After: CLEAR

Clarity After:

Artifacts: YES

Comments:

SMALL ROOTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-F80101

Lab Name: Canonie Labs

Contract: NA

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: ~~ISO1~~ SD-FBC1-01

Matrix: (soil/water) WATER

Lab Sample ID: 953238

PZ
7/5/90

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >R3238

Level: (low/med) LOW

Date Received: 08/10/90

% Moisture: not dec. 00

Date Analyzed: 08/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6.0	B
67-64-1	Acetone	32	
75-15-0	Carbon Disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	3.0	J
107-02-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-97-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
133-02-7	Xylene (total)	5.0	U

16
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-FB01-01

Lab Name: Canonic Environmental

Contract: NA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: SD-FB01

Matrix: (soil/water) SOIL

Lab Sample ID: 853238

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 18A020

Level: (low/med) LOW

Date Received: 08/10/90

% Moisture: not dec. NA

dec. NA

Date Extracted: 08/16/90

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 8/23/90

GPC Cleanup: (Y/N) N

pH: 4.5

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
106-95-2	Phenol	10.	10
111-44-4	bis(2-Chloroethyl) Ether	10.	10
95-57-8	2-Chlorophenol	10.	10
541-73-1	1,3-Dichlorobenzene	10.	10
106-46-7	1,4-Dichlorobenzene	10.	10
100-51-6	Benzyl alcohol	10.	10
95-50-1	1,2-Dichlorobenzene	10.	10
95-48-7	2-Methylphenol	10.	10
39538-32-9	bis(2-chloroisopropyl) ether	10.	10
106-44-5	4-Methylphenol	10.	10
521-64-7	N-Nitroso-Di-n-propylamine	10.	10
67-72-1	Hexachloroethane	10.	10
98-95-3	Nitrobenzene	10.	10
78-59-1	Isophorone	10.	10
88-75-5	2-Nitrophenol	10.	10
105-67-9	2,4-Dimethylphenol	10.	10
65-85-0	Benzoic acid	50.	10
111-91-1	bis(2-Chloroethoxy) methane	10.	10
120-83-2	2,4-Dichlorophenol	10.	10
120-82-1	1,2,4-Trichlorobenzene	10.	10
91-20-3	Naphthalene	10.	10
106-47-8	4-Chloroaniline	10.	10
87-68-3	Hexachlorobutadiene	10.	10
59-50-7	4-Chloro-3-methylphenol	10.	10
91-57-6	2-Methylnaphthalene	10.	10
77-47-4	Hexachlorocyclopentadiene	10.	10
88-06-2	2,4,6-Trichlorophenol	10.	10
95-35-4	2,4,5-Trichlorophenol	50.	10
91-58-7	2-Chloronaphthalene	10.	10
88-74-4	2-Nitroaniline	50.	10
131-11-3	Dimethylphthalate	10.	10
208-96-8	Acenaphthylene	10.	10
606-20-2	2,6-Dinitrotoluene	10.	10

10
 SEMI-QUANTILE ORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-FB01-01

Lab Name: Canonic Environmental

Contract: NA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: SD-FB01

Matrix: (soil/water) SOIL

Lab Sample ID: 853238

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 88A030

Level: (low/med) LOW

Date Received: 08/10/90

% Moisture: not dec. NA

dec. NA

Date Extracted: 08/16/90

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 8/23/90

GPC Cleanup: (Y/N) N

pH: 4.5

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
99-09-2	3-Nitroaniline	50.	10
83-32-9	Acenaphthene	10.	10
51-29-5	2,4-Dinitrophenol	50.	10
100-02-7	4-Nitrophenol	50.	10
132-64-9	Dibenzofuran	10.	10
121-14-2	2,4-Dinitrotoluene	10.	10
84-56-1	Diethylphthalate	10.	10
7005-72-3	4-Chlorophenyl-phenylether	10.	10
86-73-7	Fluorene	10.	10
100-01-5	4-Nitroaniline	50.	10
534-52-1	4,6-Dinitro-2-methylphenol	50.	10
86-30-6	N-Nitrosodiphenylamine (1)	10.	10
101-55-3	4-Bromophenyl-phenylether	10.	10
118-74-1	Hexachlorobenzene	10.	10
87-86-5	Pentachlorophenol	50.	10
85-01-8	Phenanthrene	10.	10
120-12-7	Anthracene	10.	10
84-74-2	Di-n-butylphthalate	10.	10
206-44-0	Fluoranthene	10.	10
129-00-0	Pyrene	10.	10
85-68-7	Butylbenzylphthalate	10.	10
91-94-1	3,3'-Dichlorobenzidine	20.	10
56-55-3	Benzo(a)anthracene	10.	10
218-01-9	Chrysene	10.	10
117-81-7	bis(2-Ethylhexyl)phthalate	10.	10
117-84-0	Di-n-octylphthalate	10.	10
205-99-2	Benzo(b)fluoranthene	10.	10
207-08-9	Benzo(k)fluoranthene	10.	10
50-32-8	Benzo(a)pyrene	10.	10
193-39-5	Indeno(1,2,3-cd)pyrene	10.	10
53-70-3	Dibenzo(a,h)anthracene	10.	10
191-24-2	Benzo(g,h,i)perylene	10.	10

(1) - Cannot be separated from Diphenylamine

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

853238

Lab Name: CANONIE ENVIRONMENTAL

Contract:

Lab Code: 9348

Case No.:

SAS No.:

SDG No.: LP9348

Matrix (soil/water): WATER

Lab Sample ID: 853238

Level (low/med): LOW

Date Received: 08/10/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	220	-		P
7440-36-0	Antimony	18.5	U	N	P
7440-38-2	Arsenic	0.80	U		F
7440-39-3	Barium	4.7	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	3.4	B		P
7440-70-2	Calcium	594	B	E	P
7440-47-3	Chromium	2.8	U		P
7440-48-4	Cobalt	2.3	U		P
7440-50-8	Copper	14.4	B		P
7439-89-6	Iron	319			P
7439-92-1	Lead	5.0			F
7439-95-4	Magnesium	113	B		P
7439-96-5	Manganese	5.6	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.3	U		P
7440-09-7	Potassium	434	U		P
7782-49-2	Selenium	1.0	B		F
7440-22-4	Silver	3.6	U	N	P
7440-23-5	Sodium	1460	B		P
7440-28-0	Thallium	0.90	U		F
7440-62-2	Vanadium	2.6	U		P
7440-66-6	Zinc	97.1			P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-TB0101

Lab Name: Canonic Labs

Contract: NA

Lab Code: HPI000

Case No.: NA

SAS No.: NA

SDG No.: ~~ISOT~~ SD-F801-01

Matrix: (soil/water) WATER

Lab Sample ID: 853239

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 853239

Level: (low/med) LOW

Date Received: 08/10/90

% Moisture: not dec. 00

Date Analyzed: 08/21/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
74-87-3	Chloromethane	10	U	
74-83-8	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	4.0	BJ	
67-64-1	Acetone	31		
75-15-0	Carbon Disulfide	5.0	U	
75-35-4	1,1-Dichloroethene	5.0	U	
75-34-3	1,1-Dichloroethane	5.0	U	
540-59-0	1,2-Dichloroethene (total)	5.0	U	
67-66-3	Chloroform	5.0		
107-02-2	1,2-Dichloroethane	5.0	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	5.0	U	
56-23-5	Carbon Tetrachloride	5.0	U	
108-05-4	Vinyl Acetate	5.0	U	
75-27-4	Bromodichloromethane	5.0	U	
78-87-5	1,2-Dichloropropane	5.0	U	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	
79-01-6	Trichloroethene	5.0	U	
124-48-1	Dibromochloromethane	5.0	U	
79-00-5	1,1,2-Trichloroethane	5.0	U	
71-43-2	Benzene	5.0	U	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	
75-25-2	Bromoform	5.0	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	5.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	
108-88-3	Toluene	5.0	U	
108-90-7	Chlorobenzene	5.0	U	
100-41-4	Ethylbenzene	5.0	U	
100-42-5	Styrene	5.0	U	
133-02-7	Xylene (total)	5.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: Canonie Labs

Contract: NA

SD-TS0601DL

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: EB021

Matrix: (soil/water) SOIL

Lab Sample ID: 853385 1/10

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: >CA094

Level: (low/med) MED

Date Received: 08/16/90

% Moisture: not dec. 22

Date Analyzed: 08/27/90

Column: (pack/cap) CAP

Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
74-87-3-----	Chloromethane	16000	IU
74-83-9-----	Bromomethane	16000	IU
75-01-4-----	Vinyl Chloride	16000	IU
75-00-3-----	Chloroethane	16000	IU
75-09-2-----	Methylene Chloride	22000	IB D
67-64-1-----	Acetone	16000	IU
75-15-0-----	Carbon Disulfide	8000	IU
75-35-4-----	1,1-Dichloroethene	8000	IU
75-34-3-----	1,1-Dichloroethane	8000	IU
540-59-0-----	1,2-Dichloroethene (total)	8000	IU
67-66-3-----	Chloroform	8000	IU
107-02-2-----	1,2-Dichloroethane	8000	IU
78-93-3-----	2-Butanone	16000	IU
71-55-6-----	1,1,1-Trichloroethane	8000	IU
56-23-5-----	Carbon Tetrachloride	8000	IU
108-05-4-----	Vinyl Acetate	16000	IU
75-27-4-----	Bromodichloromethane	8000	IU
78-87-5-----	1,2-Dichloropropane	8000	IU
10061-01-5-----	cis-1,3-Dichloropropene	8000	IU
79-01-6-----	Trichloroethene	8000	IU
124-48-1-----	Dibromochloromethane	8000	IU
79-00-5-----	1,1,2-Trichloroethane	8000	IU
71-43-2-----	Benzene	8000	IU
10061-02-6-----	trans-1,3-Dichloropropene	8000	IU
75-25-2-----	Bromoform	8000	IU
108-10-1-----	4-Methyl-2-Pentanone	16000	IU
591-78-6-----	2-Hexanone	16000	IU
127-18-4-----	Tetrachloroethene	8000	IU
79-34-5-----	1,1,2,2-Tetrachloroethane	8000	IU
108-88-3-----	Toluene	8000	IU
108-90-7-----	Chlorobenzene	8000	IU
100-41-4-----	Ethylbenzene	8000	IU
100-42-5-----	Styrene	8000	IU
133-02-7-----	Xylene (total)	8000	IU

12
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

PLENO.

A-1

Lab Name: Canonic Labs

Contract: NA

TS051

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: FB021

Matrix: (soil/water) SOIL

Lab Sample ID: 853385 9372

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: >DA046

Level: (low/med) LOW

Date Received: 08/16/90

% Moisture: not dec. 22 dec.

Date Extracted: 08/21/90

Extraction: (SepF,Cont,Sonc) SONC

Date Analyzed: 09/05/90

GPC Cleanup: (Y/N) Y

pH: 6.0

Dilution Factor: 5.00

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/Kg

Q

108-95-2-----	Phenol_____	4300	1U
111-44-4-----	bis(2-Chloroethyl)ether_____	4300	1U
95-57-8-----	2-Chlorophenol_____	4300	1U
541-73-1-----	1,3-Dichlorobenzene_____	4300	1U
106-46-7-----	1,4-Dichlorobenzene_____	4300	1U
100-51-6-----	Benzyl alcohol_____	4300	1U
95-50-1-----	1,2-Dichlorobenzene_____	4300	1U
95-48-7-----	2-Methylphenol_____	4300	1U
108-60-1-----	bis(2-chloroisopropyl)ether_____	4300	1U
106-44-5-----	4-Methylphenol_____	4300	1U
621-64-7-----	N-Nitroso-Di-n-propylamine_____	4300	1U
67-72-1-----	Hexachloroethane_____	4300	1U
98-95-3-----	Nitrobenzene_____	4300	1U
78-59-1-----	Isophorone_____	4300	1U
88-75-5-----	2-Nitrophenol_____	4300	1U
105-67-9-----	2,4-Dimethylphenol_____	4300	1U
65-85-0-----	Benzoic acid_____	21000	1U
111-91-1-----	bis(2-Chloroethoxy)methane_____	4300	1U
120-83-2-----	2,4-Dichlorophenol_____	4300	1U
120-82-1-----	1,2,4-Trichlorobenzene_____	4300	1U
91-20-3-----	Naphthalene_____	4300	1U
106-47-8-----	4-Chloroaniline_____	4300	1U
87-68-3-----	Hexachlorobutadiene_____	4300	1U
59-50-7-----	4-Chloro-3-methylphenol_____	4300	1U
91-57-6-----	2-Methylnaphthalene_____	6100	1
77-47-4-----	Hexachlorocyclopentadiene_____	4300	1U
88-06-2-----	2,4,6-Trichlorophenol_____	4300	1U
95-95-4-----	2,4,5-Trichlorophenol_____	21000	1U
91-58-7-----	2-Chloronaphthalene_____	4300	1U
88-74-4-----	2-Nitroaniline_____	4300	1U
131-11-3-----	Dimethylphthalate_____	4300	1U
208-96-8-----	Acenaphthylene_____	4300	1U
606-20-2-----	2,6-Dinitrotoluene_____	4300	1U

10
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TS051

Lab Name: Canonic Labs

Contract: NA

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: FB021

Matrix: (soil/water) SOIL

Lab Sample ID: 853385 9372

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: DA046

Level: (low/med) LOW

Date Received: 08/16/90

% Moisture: not dec. 22 dec.

Date Extracted: 08/21/90

Extraction: (SepF,Cont,Sonc) SONC

Date Analyzed: 09/05/90

GPC Cleanup: (Y/N) Y

pH: 6.0

Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg Q
99-09-2	3-Nitroaniline	21000	U
83-32-9	Acenaphthene	4300	U
51-28-5	2,4-Dinitrophenol	21000	U
100-02-7	4-Nitrophenol	21000	U
132-64-9	Dibenzofuran	4300	U
121-14-2	2,4-Dinitrotoluene	4300	U
84-66-2	Diethylphthalate	4300	U
7005-72-3	4-Chlorophenyl-phenylether	4300	U
86-73-7	Fluorene	1300	J
100-01-6	4-Nitroaniline	21000	U
534-52-1	4,6-Dinitro-2-methylphenol	21000	U
86-30-6	N-Nitrosodiphenylamine (1)	4300	U
101-55-3	4-Bromophenyl-phenylether	4300	U
118-74-1	Hexachlorobenzene	4300	U
87-86-5	Pentachlorophenol	21000	U
85-01-8	Phenanthrene	5200	
120-12-7	Anthracene	4300	U
84-74-2	Di-n-butylphthalate	4300	U
206-44-0	Fluoranthene	4300	U
129-00-0	Pyrene	3400	J
85-68-7	Butylbenzylphthalate	4300	U
91-94-1	3,3'-Dichlorobenzidine	8500	U
56-55-3	Benzo(a)anthracene	4300	U
218-01-9	Chrysene	4300	U
117-81-7	bis(2-Ethylhexyl)phthalate	4300	U
117-84-0	Di-n-octylphthalate	4300	U
205-99-2	Benzo(b)fluoranthene	4300	U
207-08-9	Benzo(k)fluoranthene	4300	U
50-32-8	Benzo(a)pyrene	1110	J
193-39-5	Indeno(1,2,3-cd)pyrene	4300	U
53-70-3	Dibenz(a,h)anthracene	4300	U
191-24-2	Benzo(g,h,i)perylene	4300	U

(1) - Cannot be separated from Diphenylamine

041

INORGANIC ANALYSIS DATA SHEET

853385

Lab Name: CANONIE ENVIRONMENTAL

Contract: WELLSVILLE

Lab Code:

Case No.:

SAS No.:

SDG No.: LP9372

Matrix (soil/water): SOIL

Lab Sample ID: 853385

Level (low/med): LOW

Date Received: 08/15/90

Solids: 78.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7040	-	-	P
7440-36-0	Antimony	4.7	U	N	P
7440-38-2	Arsenic	25.6		S	F
7440-39-3	Barium	95.8			P
7440-41-7	Beryllium	0.38	B		P
7440-43-9	Cadmium	1.9			P
7440-70-2	Calcium	5110		E	P
7440-47-3	Chromium	7.1			P
7440-48-4	Cobalt	6.6	B		P
7440-50-8	Copper	9.5			P
7439-89-6	Iron	22500			P
7439-92-1	Lead	45.3		NS*	F
7439-95-4	Magnesium	2160			P
7439-96-5	Manganese	162		N	P
7439-97-6	Mercury	0.04			CV
7440-02-0	Nickel	12.0			P
7440-09-7	Potassium	672	B		P
7782-49-2	Selenium	0.41	B		F
7440-22-4	Silver	1.3	B	N	P
7440-23-5	Sodium	193	B		P
7440-28-0	Thallium	0.23	U		F
7440-62-2	Vanadium	8.0	B		P
7440-66-6	Zinc	80.6			P
	Cyanide				NR

Color Before: BLACK

Clarity Before:

Texture: COARSE

Color After: YELLOW

Clarity After:

Artifacts: YES

Comments:
ROCKS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-TS1101

Lab Name: Canonie Labs

Contract: NA

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: EB021

Matrix: (soil/water) SOIL

Lab Sample ID: 853386 1/10

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: >CA095

Level: (low/med) MED

Date Received: 08/16/90

Moisture: not dec. 28

Date Analyzed: 08/27/90

Column: (pack/cap) CAP

Dilution Factor: 10.00

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/Kg

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	17000	IU
74-83-9	Bromomethane	17000	IU
75-01-4	Vinyl Chloride	17000	IU
75-00-3	Chloroethane	17000	IU
75-09-2	Methylene Chloride	23000	IB
67-64-1	Acetone	17000	IU
75-15-0	Carbon Disulfide	8600	IU
75-35-4	1,1-Dichloroethene	8600	IU
75-34-3	1,1-Dichloroethane	8600	IU
540-59-0	1,2-Dichloroethene (total)	8600	IU
67-66-3	Chloroform	8600	IU
107-02-2	1,2-Dichloroethane	8600	IU
78-93-3	2-Butanone	17000	IU
71-55-6	1,1,1-Trichloroethane	8600	IU
56-23-5	Carbon Tetrachloride	8600	IU
108-05-4	Vinyl Acetate	17000	IU
75-27-4	Bromodichloromethane	8600	IU
78-87-5	1,2-Dichloropropane	8600	IU
10061-01-5	cis-1,3-Dichloropropene	8600	IU
79-01-6	Trichloroethene	8600	IU
124-48-1	Dibromochloromethane	8600	IU
79-00-5	1,1,2-Trichloroethane	8600	IU
71-43-2	Benzene	8600	IU
10061-02-6	trans-1,3-Dichloropropene	8600	IU
75-25-2	Bromoform	8600	IU
108-10-1	4-Methyl-2-Pentanone	17000	IU
591-78-6	2-Hexanone	17000	IU
127-18-4	Tetrachloroethene	8600	IU
79-34-5	1,1,2,2-Tetrachloroethane	8600	IU
108-88-3	Toluene	8600	IU
108-90-7	Chlorobenzene	8600	IU
100-41-4	Ethylbenzene	8600	IU
100-42-5	Styrene	8600	IU
133-02-7	Xylene (total)	8600	IU

083

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

TS111

Lab Name: Canonic Labs

Contract: NA

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: FB021

Matrix: (soil/water) SOIL

Lab Sample ID: 853386 9372

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: >DA049

Level: (low/med) LOW

Date Received: 08/16/90

% Moisture: not dec. 28 dec.

Date Extracted: 08/21/90

Extraction: (SepF,Cont,SONC) SONC

Date Analyzed: 09/05/90

GPC Cleanup: (Y/N) Y

pH: 6.2

Dilution Factor: 5.00

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/Kg

Q

108-95-2-----	Phenol	4600	U
111-44-4-----	bis(2-Chloroethyl)ether	4600	U
95-57-8-----	2-Chlorophenol	4600	U
541-73-1-----	1,3-Dichlorobenzene	4600	U
106-46-7-----	1,4-Dichlorobenzene	4600	U
100-51-6-----	Benzyl alcohol	4600	U
95-50-1-----	1,2-Dichlorobenzene	4600	U
95-48-7-----	2-Methylphenol	4600	U
108-60-1-----	bis(2-chloroisopropyl)ether	4600	U
106-44-5-----	4-Methylphenol	4600	U
621-64-7-----	N-Nitroso-Di-n-propylamine	4600	U
67-72-1-----	Hexachloroethane	4600	U
98-95-3-----	Nitrobenzene	4600	U
78-59-1-----	Isophorone	4600	U
88-75-5-----	2-Nitrophenol	4600	U
105-67-9-----	2,4-Dimethylphenol	4600	U
65-85-0-----	Benzoic acid	23000	U
111-91-1-----	bis(2-Chloroethoxy)methane	4600	U
120-83-2-----	2,4-Dichlorophenol	4600	U
120-82-1-----	1,2,4-Trichlorobenzene	4600	U
91-20-3-----	Naphthalene	4600	U
106-47-8-----	4-Chloroaniline	4600	U
87-68-3-----	Hexachlorobutadiene	4600	U
59-50-7-----	4-Chloro-3-methylphenol	4600	U
91-57-6-----	2-Methylnaphthalene	4600	U
77-47-4-----	Hexachlorocyclopentadiene	4600	U
88-06-2-----	2,4,6-Trichlorophenol	4600	U
95-95-4-----	2,4,5-Trichlorophenol	23000	U
91-58-7-----	2-Chloronaphthalene	4600	U
88-74-4-----	2-Nitroaniline	4600	U
131-11-3-----	Dimethylphthalate	4600	U
208-96-8-----	Acenaphthylene	4600	U
606-20-2-----	2,6-Dinitrotoluene	4600	U

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TS111

Lab Name: Canonic Labs

Contract: NA

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: FB021

Matrix: (soil/water) SOIL

Lab Sample ID: 853386 9372

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: >DA049

Level: (low/med) LOW

Date Received: 08/16/90

% Moisture: not dec. 28 dec.

Date Extracted: 08/21/90

Extraction: (SepF,Cont,Sonc) SONC

Date Analyzed: 09/05/90

GPC Cleanup: (Y/N) Y

pH: 6.2

Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) ug/Kg	Q
99-09-2	3-Nitroaniline	4600	1U
83-32-9	Acenaphthene	4600	1U
51-28-5	2,4-Dinitrophenol	23000	1U
100-02-7	4-Nitrophenol	23000	1U
132-64-9	Dibenzofuran	4600	1U
121-14-2	2,4-Dinitrotoluene	4600	1U
84-66-2	Diethylphthalate	4600	1U
7005-72-3	4-Chlorophenyl-phenylether	4600	1U
86-73-7	Fluorene	2500	J
100-01-6	4-Nitroaniline	23000	1U
534-52-1	4,6-Dinitro-2-methylphenol	23000	1U
86-30-6	N-Nitrosodiphenylamine (1)	4600	1U
101-55-3	4-Bromophenyl-phenylether	4600	1U
118-74-1	Hexachlorobenzene	4600	1U
87-86-5	Pentachlorophenol	23000	1U
85-01-8	Phenanthrene	7100	
120-12-7	Anthracene	4600	1U
84-74-2	Di-n-butylphthalate	4600	1U
206-44-0	Fluoranthene	4600	1U
129-00-0	Pyrene	3700	J
85-68-7	Butylbenzylphthalate	4600	1U
91-94-1	3,3'-Dichlorobenzidine	9300	1U
56-55-3	Benzo(a)anthracene	4600	1U
218-01-9	Chrysene	4600	1U
117-81-7	bis(2-Ethylhexyl)phthalate	4600	1U
117-84-0	Di-n-octylphthalate	4600	1U
205-99-2	Benzo(b)fluoranthene	4600	1U
207-08-9	Benzo(k)fluoranthene	4600	1U
50-32-8	Benzo(a)pyrene	4600	1U
193-39-5	Indeno(1,2,3-cd)pyrene	4600	1U
53-70-3	Dibenz(a,h)anthracene	4600	1U
191-24-2	Benzo(g,h,i)perylene	4600	1U

(1) - Cannot be separated from Diphenylamine

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

853386

Lab Name: CANONIE ENVIRONMENTAL

Contract: WELLSVILLE

Lab Code:

Case No.:

SAS No.:

SDG No.: LP9372

Matrix (soil/water): SOIL

Lab Sample ID: 853386

Level (low/med): LOW

Date Received: 08/15/90

% Solids: 71.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7860			P
7440-36-0	Antimony	5.1	U	N	P
7440-38-2	Arsenic	6.9			F
7440-39-3	Barium	81.3			P
7440-41-7	Beryllium	0.35	B		P
7440-43-9	Cadmium	1.6			P
7440-70-2	Calcium	681	B	E	P
7440-47-3	Chromium	7.4			P
7440-48-4	Cobalt	7.4	B		P
7440-50-8	Copper	7.7			P
7439-89-6	Iron	16200			P
7439-92-1	Lead	10.6		NS*	F
7439-95-4	Magnesium	1780			P
7439-96-5	Manganese	127		N	P
7439-97-6	Mercury	0.03	U		CV
7440-02-0	Nickel	14.2			P
7440-09-7	Potassium	924	B		P
7782-49-2	Selenium	0.46	B		F
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	204	B		P
7440-28-0	Thallium	0.25	U		F
7440-62-2	Vanadium	7.3	B		P
7440-66-6	Zinc	43.9			P
	Cyanide				NR

Color Before: BLACK

Clarity Before:

Texture: COARSE

Color After: YELLOW

Clarity After:

Artifacts: YES

Comments:
ROCKS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

PA SAMPLE NO.

SD-FB02-01

Lab Name: Canonic Labs

Contract: NA

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: EB021

Matrix: (soil/water) WATER

Lab Sample ID: 853388 9372

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >CA061

Level: (low/med) LOW

Date Received: 08/16/90

% Moisture: not dec.

Date Analyzed: 08/24/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	IU
74-83-9	Bromomethane	10	IU
75-01-4	Vinyl Chloride	10	IU
75-00-3	Chloroethane	10	IU
75-09-2	Methylene Chloride	14	IB
67-64-1	Acetone	62	
75-15-0	Carbon Disulfide	5.0	IU
75-35-4	1,1-Dichloroethene	5.0	IU
75-34-3	1,1-Dichloroethane	5.0	IU
540-59-0	1,2-Dichloroethene (total)	4.0	I 3
67-66-3	Chloroform	5.0	IU
107-02-2	1,2-Dichloroethane	5.0	IU
78-93-3	2-Butanone	10	IU
71-55-6	1,1,1-Trichloroethane	5.0	IU
56-23-5	Carbon Tetrachloride	5.0	IU
108-05-4	Vinyl Acetate	10	IU
75-27-4	Bromodichloromethane	5.0	IU
78-87-5	1,2-Dichloropropane	5.0	IU
10061-01-5	cis-1,3-Dichloropropene	5.0	IU
79-01-6	Trichloroethene	5.0	IU
124-48-1	Dibromochloromethane	5.0	IU
79-00-5	1,1,2-Trichloroethane	5.0	IU
71-43-2	Benzene	5.0	IU
10061-02-6	trans-1,3-Dichloropropene	5.0	IU
75-25-2	Bromoform	5.0	IU
108-10-1	4-Methyl-2-Pentanone	10	IU
591-78-6	2-Hexanone	10	IU
127-18-4	Tetrachloroethene	5.0	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.0	IU
108-88-3	Toluene	5.0	IU
108-90-7	Chlorobenzene	5.0	IU
100-41-4	Ethylbenzene	5.0	IU
100-42-5	Styrene	5.0	IU
133-02-7	Xylene (total)	5.0	IU

18
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB021

Lab Name: Canonie

Contract: NA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: FB021

Matrix: (soil/water) WATER

Lab Sample ID: 853389 9372

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: >BA046

Level: (low/med) LOW

Date Received: 8/16/90

% Moisture: not dec. NA

dec. NA

Date Extracted: 8/20/90

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 8/27/90

GPC Cleanup: (Y/N) N

pH: 5.0

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)Ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-Di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

033

IC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB021

Lab Name: Canonie

Contract: NA

Lab Code: NA

Case No.: NA

SAS No.: NA

SDG No.: FB021

Matrix: (soil/water) WATER

Lab Sample ID: 853389 9372

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: JBA046

Level: (low/med) LOW

Date Received: 8/16/90

% Moisture: not dec. NA

dec. NA

Date Extracted: 8/20/90

Extraction: (Sepf/Cont/Sonc) CONT

Date Analyzed: 8/27/90

GPC Cleanup: (Y/N) N

pH: 5.0

Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50.	1U
83-32-9	Acenaphthene	10.	1U
51-28-5	2,4-Dinitrophenol	50.	1U
100-02-7	4-Nitrophenol	50.	1U
132-64-9	Dibenzofuran	10.	1U
121-14-2	2,4-Dinitrotoluene	10.	1U
84-66-2	Diethylphthalate	10.	1U
7005-72-3	4-Chlorophenyl-phenylether	10.	1U
86-73-7	Fluorene	10.	1U
100-01-6	4-Nitroaniline	50.	1U
534-52-1	4,6-Dinitro-2-methylphenol	50.	1U
86-30-6	N-Nitrosodiphenylamine (1)	10.	1U
101-55-3	4-Bromophenyl-phenylether	10.	1U
118-74-1	Hexachlorobenzene	10.	1U
87-86-5	Pentachlorophenol	50.	1U
85-01-8	Phenanthrene	10.	1U
120-12-7	Anthracene	10.	1U
84-74-2	Di-n-butylphthalate	10.	1U
206-44-0	Fluoranthene	10.	1U
129-00-0	Pyrene	10.	1U
85-68-7	Butylbenzylphthalate	10.	1U
91-94-1	3,3'-Dichlorobenzidine	20.	1U
56-55-3	Benzo(a)anthracene	10.	1U
218-01-9	Chrysene	10.	1U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	1U
117-84-0	Di-n-octylphthalate	10.	1U
205-99-2	Benzo(b)fluoranthene	10.	1U
207-08-9	Benzo(k)fluoranthene	10.	1U
50-32-8	Benzo(a)pyrene	10.	1U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	1U
53-70-3	Dibenzo(a,h)anthracene	10.	1U
191-24-2	Benzo(g,h,i)perylene	10.	1U

(1) - Cannot be separated from Diphenylamine

036

U.S. EPA - CLP

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

853389

Lab Name: CANONIE ENVIRONMENTAL

Contract: WELLSVILLE

Lab Code:

Case No.:

SAS No.:

SDG No.: LP9372

Matrix (soil/water): WATER

Lab Sample ID: 853389

Level (low/med): LOW

Date Received: 08/15/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	155	B		P
7440-36-0	Antimony	18.5	U		P
7440-38-2	Arsenic	0.80	U		F
7440-39-3	Barium	3.8	U		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	3.8	B		P
7440-70-2	Calcium	352	B		P
7440-47-3	Chromium	2.8	U		P
7440-48-4	Cobalt	2.3	U		P
7440-50-8	Copper	5.4	B		P
7439-89-6	Iron	58.2	B		P
7439-92-1	Lead	0.65	B		F
7439-95-4	Magnesium	48.8	B		P
7439-96-5	Manganese	2.8	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.3	U		P
7440-09-7	Potassium	434	U		P
7782-49-2	Selenium	0.95	B		F
7440-22-4	Silver	3.6	U	N	P
7440-23-5	Sodium	811	B		P
7440-28-0	Thallium	0.90	U		F
7440-62-2	Vanadium	2.6	U		P
7440-66-6	Zinc	138		E*	P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

PA SAMPLE NO.

SD-TB02-01

Lab Name: Canonic Labs

Contract: NA

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: EB021

Matrix: (soil/water) WATER

Lab Sample ID: 853390 9372

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >CA062

Level: (low/med) LOW

Date Received: 08/16/90

% Moisture: not dec.

Date Analyzed: 08/24/90

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
			Q
74-87-3	Chloromethane	10	IU
74-83-9	Bromomethane	10	IU
75-01-4	Vinyl Chloride	10	IU
75-00-3	Chloroethane	10	IU
75-09-2	Methylene Chloride	13	IB
67-64-1	Acetone	10	IU
75-15-0	Carbon Disulfide	5.0	IU
75-35-4	1,1-Dichloroethene	5.0	IU
75-34-3	1,1-Dichloroethane	5.0	IU
540-59-0	1,2-Dichloroethene (total)	5.0	IU
67-66-3	Chloroform	5.0	IU
107-02-2	1,2-Dichloroethane	5.0	IU
78-93-3	2-Butanone	10	IU
71-55-6	1,1,1-Trichloroethane	5.0	IU
56-23-5	Carbon Tetrachloride	5.0	IU
108-05-4	Vinyl Acetate	10	IU
75-27-4	Bromodichloromethane	5.0	IU
78-87-5	1,2-Dichloropropane	5.0	IU
10061-01-5	cis-1,3-Dichloropropene	5.0	IU
79-01-6	Trichloroethene	5.0	IU
124-48-1	Dibromochloromethane	5.0	IU
79-00-5	1,1,2-Trichloroethane	5.0	IU
71-43-2	Benzene	5.0	IU
10061-02-6	trans-1,3-Dichloropropene	5.0	IU
75-25-2	Bromoform	5.0	IU
108-10-1	4-Methyl-2-Pentanone	10	IU
591-78-6	2-Hexanone	10	IU
127-18-4	Tetrachloroethene	5.0	IU
79-34-5	1,1,2,2-Tetrachloroethane	5.0	IU
108-88-3	Toluene	5.0	IU
108-90-7	Chlorobenzene	5.0	IU
100-41-4	Ethylbenzene	5.0	IU
100-42-5	Styrene	5.0	IU
133-02-7	Xylene (total)	5.0	IU

055

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-TS1101 DP

Lab Name: Canonic Labs

Contract: NA

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: EB021

Matrix: (soil/water) SOIL

Lab Sample ID: 853391 1/10

Sample wt/Vol: 4.0 (g/mL) G

Lab File ID: >CA096

Level: (low/med) MED

Date Received: 08/16/90

% Moisture: not dec. 20

Date Analyzed: 08/27/90

Column: (pack/cap) CAP

Dilution Factor: 10.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
74-87-3	Chloromethane	16000	IU	
74-83-9	Bromomethane	16000	IU	
75-01-4	Vinyl Chloride	16000	IU	
75-00-3	Chloroethane	16000	IU	
75-09-2	Methylene Chloride	21000	IB	
67-64-1	Acetone	16000	IU	
75-15-0	Carbon Disulfide	7800	IU	
75-35-4	1,1-Dichloroethene	7800	IU	
75-34-3	1,1-Dichloroethane	7800	IU	
540-59-0	1,2-Dichloroethene (total)	7800	IU	
67-66-3	Chloroform	7800	IU	
107-02-2	1,2-Dichloroethane	7800	IU	
78-93-3	2-Butanone	16000	IU	
71-55-6	1,1,1-Trichloroethane	7800	IU	
56-23-5	Carbon Tetrachloride	7800	IU	
108-05-4	Vinyl Acetate	16000	IU	
75-27-4	Bromodichloromethane	7800	IU	
78-87-5	1,2-Dichloropropane	7800	IU	
10061-01-5	cis-1,3-Dichloropropene	7800	IU	
79-01-6	Trichloroethene	7800	IU	
124-48-1	Dibromochloromethane	7800	IU	
79-00-5	1,1,2-Trichloroethane	7800	IU	
71-43-2	Benzene	7800	IU	
10061-02-6	trans-1,3-Dichloropropene	7800	IU	
75-25-2	Bromoform	7800	IU	
108-10-1	4-Methyl-2-Pentanone	16000	IU	
591-78-6	2-Hexanone	16000	IU	
127-18-4	Tetrachloroethene	7800	IU	
79-34-5	1,1,2,2-Tetrachloroethane	7800	IU	
108-88-3	Toluene	7800	IU	
108-90-7	Chlorobenzene	7800	IU	
100-41-4	Ethylbenzene	7800	IU	
100-42-5	Styrene	7800	IU	
133-02-7	Xylene (total)	7800	IU	

18
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

TEST ID

Lab Name: Canonic Labs

Contract: NA

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: FB021

Matrix: (soil/water) SOIL

Lab Sample ID: 853391 9372

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: DA050

Level: (low/med) LOW

Date Received: 08/16/90

% Moisture: not dec. 20 dec.

Date Extracted: 08/21/90

Extraction: (SepF,Cont,Sonc) SONC

Date Analyzed: 09/05/90

GPC Cleanup: (Y/N) Y

pH: 6.2

Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
108-95-2	Phenol	4200	1U
111-44-4	bis(2-Chloroethyl)ether	4200	1U
95-57-8	2-Chlorophenol	4200	1U
541-73-1	1,3-Dichlorobenzene	4200	1U
106-46-7	1,4-Dichlorobenzene	4200	1U
100-51-6	Benzyl alcohol	4200	1U
95-50-1	1,2-Dichlorobenzene	4200	1U
95-48-7	2-Methylphenol	4200	1U
108-60-1	bis(2-chloroisopropyl)ether	4200	1U
106-44-5	4-Methylphenol	4200	1U
621-64-7	N-Nitroso-Di-n-propylemine	4200	1U
67-72-1	Hexachloroethane	4200	1U
98-95-3	Nitrobenzene	4200	1U
78-59-1	Isophorone	4200	1U
88-75-5	2-Nitrophenol	4200	1U
105-67-9	2,4-Dimethylphenol	4200	1U
65-85-0	Benzoic acid	21000	1U
111-91-1	bis(2-Chloroethoxy)methane	4200	1U
120-83-2	2,4-Dichlorophenol	4200	1U
120-82-1	1,2,4-Trichlorobenzene	4200	1U
91-20-3	Naphthalene	4200	1U
106-47-8	4-Chloroaniline	4200	1U
87-68-3	Hexachlorobutadiene	4200	1U
59-50-7	4-Chloro-3-methylphenol	4200	1U
91-57-6	2-Methylnaphthalene	4200	1U
77-47-4	Hexachlorocyclopentadiene	4200	1U
88-06-2	2,4,6-Trichlorophenol	4200	1U
95-95-4	2,4,5-Trichlorophenol	21000	1U
91-58-7	2-Chloronaphthalene	4200	1U
88-74-4	2-Nitroaniline	4200	1U
131-11-3	Dimethylphthalate	4200	1U
208-96-8	Acenaphthylene	4200	1U
606-20-2	2,6-Dinitrotoluene	4200	1U

SEMI-QUANTITATIVE ORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TS1110

Lab Name: Canonic Labs

Contract: NA

Lab Code: HP1000

Case No.: NA

SAS No.: NA

SDG No.: FB021

Matrix: (soil/water) SOIL

Lab Sample ID: 853391 9372

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: 00A050

Level: (low/med) LOW

Date Received: 08/16/90

% Moisture: not dec. 20 dec.

Date Extracted: 08/21/90

Extraction: (SepF,Cont,SONC) SONC

Date Analyzed: 09/05/90

GPC Cleanup: (Y/N) Y

pH: 6.2

Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) ug/Kg	Q
99-09-2-----	3-Nitroaniline_____	21000	1U
83-32-9-----	Acenaphthene_____	4200	1U
51-28-5-----	2,4-Dinitrophenol_____	21000	1U
100-02-7-----	4-Nitrophenol_____	21000	1U
132-64-9-----	Dibenzofuran_____	4200	1U
121-14-2-----	2,4-Dinitrotoluene_____	4200	1U
84-66-2-----	Diethylphthalate_____	4200	1U
7005-72-3-----	4-Chlorophenyl-phenylether_____	4200	1U
86-73-7-----	Fluorene_____	2900	1J
100-01-6-----	4-Nitroaniline_____	4200	1U
534-52-1-----	4,6-Dinitro-2-methylphenol_____	21000	1U
86-30-6-----	N-Nitrosodiphenylamine (1)_____	4200	1U
101-55-3-----	4-Bromophenyl-phenylether_____	4200	1U
118-74-1-----	Hexachlorobenzene_____	4200	1U
87-96-5-----	Pentachlorophenol_____	21000	1U
85-01-8-----	Phenanthrene_____	8800	1U
120-12-7-----	Anthracene_____	4200	1U
84-74-2-----	Di-n-butylphthalate_____	4200	1U
206-44-0-----	Fluoranthene_____	4200	1U
129-00-0-----	Pyrene_____	4600	1U
85-68-7-----	Butylbenzylphthalate_____	4200	1U
91-94-1-----	3,3'-Dichlorobenzidine_____	8300	1U
56-55-3-----	Benzo(a)anthracene_____	4200	1U
218-01-9-----	Chrysene_____	4200	1U
117-81-7-----	bis(2-Ethylhexyl)phthalate_____	4200	1U
117-84-0-----	Di-n-octylphthalate_____	4200	1U
205-99-2-----	Benzo(b)fluoranthene_____	4200	1U
207-08-9-----	Benzo(k)fluoranthene_____	4200	1U
50-32-8-----	Benzo(a)pyrene_____	4200	1U
193-39-5-----	Indeno(1,2,3-cd)pyrene_____	4200	1U
53-70-3-----	Dibenz(a,h)anthracene_____	4200	1U
191-24-2-----	Benzo(g,h,i)perylene_____	4200	1U

(1) - Cannot be separated from Diphenylamine

1
INORGANIC ANALYSIS DATA SHEET

853391

Lab Name: CANONIE ENVIRONMENTAL

Contract: WELLSVILLE

Lab Code:

Case No.:

SAS No.:

SDG No.: LP9372

Matrix (soil/water): SOIL

Lab Sample ID: 853391

Level (low/med): LOW

Date Received: 08/15/90

% Solids: 79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7370	-		P
7440-36-0	Antimony	4.7	U	N	P
7440-38-2	Arsenic	6.2			F
7440-39-3	Barium	75.0			P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	1070	B	E	P
7440-47-3	Chromium	6.9			P
7440-48-4	Cobalt	6.6	B		P
7440-50-8	Copper	8.6			P
7439-89-6	Iron	16000			P
7439-92-1	Lead	12.7		NS*	F
7439-95-4	Magnesium	1770			P
7439-96-5	Manganese	145		N	P
7439-97-6	Mercury	0.03			CV
7440-02-0	Nickel	13.1			P
7440-09-7	Potassium	735	B		P
7782-49-2	Selenium	0.15	U		F
7440-22-4	Silver	0.91	U	N	P
7440-23-5	Sodium	150	B		P
7440-28-0	Thallium	0.23	U		F
7440-62-2	Vanadium	7.1	B		P
7440-66-6	Zinc	45.0			P
	Cyanide				NR

Color Before: BLACK

Clarity Before:

Texture: COARSE

Color After: YELLOW

Clarity After:

Artifacts: YES

Comments:
ROCKS

GENESEE RIVER PARTIAL CHANNELIZATION PROJECT
SINCLAIR REFINERY SITE
WELLSVILLE, N.Y.

PRE-FINAL INSPECTION

NOVEMBER 15, 1990

SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST
DATE: 11-7-90

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		W/B	E/B	STA.				
1	Complete Toe Treat to 0+00		X	0+00	11-7-90	11-20-90	X	
2	Complete slope protection (Geo Tex Bedding stone & Rip Rap)		X	0+00 to 1+00	11-7-90	11-20-90	X	
3	Fine grade Top Soil stockpile Area.		X	0+00	11-7-90	11-20-90 11-29-90	X	X
4	Fill Voids in slope protection surface		X	1+00 to 8+00	11-7-90	11-20-90	X	
5	Fine grade Common fill Area		X	1+00 to 9+50	11-7-90	11-20-90 will be Compl next year	X	X
6	Complete Slope Protection & fill voids in surface		X	8+00 to 16+50	11-7-90	11-20-90	X	
7	Remove Logs & Debris from work limits		X	0+00 to 18+50	11-7-90	11-20-90	X	
8	Fill & Fine grade Area from slope protect to fence line		X	9+50 to 18+50	11-7-90	11-20-90	X	

SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST
DATE: 11-7-90

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		W/B	E/B	STA.				
9	Remove road crossing at Cole Creek.		X	18+85	11-7-90	11-20-90	X	
10	Fill void & low places in slope protection surface.		X	16+50 To END OF E/B RIP RAP	11-7-90	11-20-90	X	
11	Fill grade AREA from slope protection to fence line.		X	18+50 to 22+00	11-7-90	11-20-90	X	
12	Fill grade slope surface & AREA to fence line		X	22+00 to 31+00	11-7-90	11-20-90	X	
13	Remove logs & Debris from work AREA Limits		X	18+50 to 31+00	11-7-90	11-20-90 Push outside Esment gird Letter	X	X
14	Seed & mulch areas disturbed by construction		X	0+00 to 31+00	11-7-90	11-20-90 Will compl next year with letter	X	X
15	Move fences back to permanent locations		X	1+50 to 31+00	11-7-90	Contr. will MAINTAIN fence @ EAST side of work area until veg. is ok	N/A	N/A
16	Remove All survey markers		X	NA	11-7-90	11-20-90 11-29-90	X	X

SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST
DATE: 11-9-90

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		W/B	E/B	STA.				
17	PAINT SCARS ON trees & Brush.		X	N/A	11-7-90	11-20-90	X	
18	Remove silt fences		X	N/A	11-7-90	11-20-90	X	
19	x Sections		X	N/A	11-9-90	? 11-29-90	X	
20	FINE GRADE CELA IMPOUNDMENT	✓		N/A	11-9-90	11-19-90	X	
21	PLACE PPE CONTAINERS WITH-IN silt fenced AREA @ CELA IMPOUNDMENT	✓		N/A	11-9-90	11-19-90 11-26-90 11-27-90 11-29-90	X	
22	REPAIR MONITORING well @ So. End of N.V. DIKE	✓		N/A	11-9-90	11-19-90	X	
23	CLEAN-UP all CONST-AIDS & Debris.	✓		N/A	11-9-90	11-26-90 11-29-90	X	

**SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST**

DATE: 11/9/90

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		W/B	E/B	STA.				
24	GRADE ALL STOCKPILES	✓		3+00 TO 8+00	11/8/90	11-19-90 11-26-90 12-4-90	X	✓
25	GRADE DRAINAGE SWALE TO MINIMIZE PONDING	✓		2+00 TO 5+00	11/8/90	11-19-90 11-26-90 11-29-90	X	✓
26	GRADE DRAINAGE DITCH	✓		5+00 TO 15+00	11/8/90	11-19-90 11-26-90 11-29-90	X	✓
27	PROVIDE 2% SLOPE TOWARD RIP RAP IN DIKE ROAD	✓		0+00 TO 22+00	11/8/90	11-19-90 11-26-90 11-29-90	X	✓
28	FILL SUMP AT DECON PAD	✓		9+00	11/8/90	11-19-90	X	
29	GRADE AND TACK WALK TOPSOILED SLOPE	✓		5+00 TO 15+00	11/8/90	11-19-90 11-29-90	X	X
30	REMOVE ALL SURVEY STAKES	✓		0+00 TO 22+00	11/8/90	11-19-90 11-26-90 11-29-90	X	✓
31	QC SHOPE RIP RAP	✓		9+00 TO	11/8/90	11-19-90	X	

SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST
DATE: 11/9/90

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		W/B	E/B	STA.				
32	GRADE DISTURBED AREAS OUTSIDE TOE TRANCH & SEED AND MULCH ✓			11+50 TO 16+00	11/8/90	11-19-90 11-26-90 11-29-90		X X
33	GRADE TRANSITION BETWEEN N.Y. DIKE RIP RAP & NEW RIP RAP ✓			17+00 TO 19+00	11/8/90	? 11-29-90		
34	COMPLETE GRADING BE- HIND N.Y. DIKE ✓	✓		16+00 TO 22+00	11/8/90	11-19-90	X	
35	REMOVE RAMP ✓	✓		5+00	11/8/90	11-19-90 11-26-90 11-29-90		X X
36	Well Pipe in Side Slope To be Removed			8+50	11/10/90	11-19-90	X	
37	Top of Rip Rap And 6" Aggregate Pull Back Level Labor Work			0+00 21+50	11/10/90	11-19-90 11-26-90 OPEN		X X
38	X Section West DiKE			0+00 21+50	11/10/90	? 11-29-90		

ARCO

515 South Flower Street
Los Angeles, California 90071
Telephone 213 466 3669
Fax 213 466 1740

Michael A. Turco, P.E., DEE
Project Manager

November 8, 1990

RECEIVED

NOV 13 1990

Mr. Michael Negrelli
Project Manager
U.S. Environmental Protection Agency
Region 2
26 Federal Plaza, Room 747
New York, New York 10278

THOMAS GRANGER
EBASCO SERVICES INC.

Subject: SINCLAIR REFINERY SITE, WELLSVILLE, NY
PARTIAL RIVER CHANNELIZATION PROJECT

Dear Mike:

This letter is to notify you that progress on the partial river channelization portion of the Sinclair Refinery Site is fast approaching 95% completion. Pursuant to Section VI.E.(10) of the Consent Decree, ARCO would like to schedule the pre-final inspection of the River Channelization work for Thursday, November 15, 1990 at 1:00 p.m.

This site inspection will determine project completeness and consistency with the River Channelization Project Plans and to discuss procedures and requirements for project close-out and completion.

Please call if you have any questions or scheduling problems.

Sincerely,

Michael A. Turco

Michael A. Turco

cc: M. Dianne Smith - ARCO
A. Joseph White - NYSDEC
Carol Y. Berns - USEPA
Chief, Environmental Enforcement Section
T. Granger - EBASCO
G. Stiles - EBASCO
V. DiMeglio - US Army COE - NY
D. Hooker - US Army COE - Kansas City District
J. Boyle - US Army COE - Buffalo

GENESEE RIVER PARTIAL CHANNELIZATION PROJECT
WEST BANK DIKE EXTENSION
SINCLAIR REFINERY SITE
WELLSVILLE, N.Y.

PRE-FINAL INSPECTION

DECEMBER 11, 1990

SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST
DATE: 12-10-90

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		W/B	E/B	STA.				
1	Remove clearing debris (logs & brush)	X		27+00	12-10-90		X	
2	Fine grade AREAS disturbed during construction.	X		Dike Extension Area	12-10-90		X	
3	Fill Low spot in Rip Rap - Toe.	X		25+75	12-10-90		X	
4	Knock down clay Piles in SLA.	X		24+00 to 25+00	12-10-90		X	
5	Complete remove of material @ Ramp.	X		23+00	12-10-90		X	
6	Shape Spoil Area to N.Y. impdnt. So Area will drain.	X		Inside along dike Toe	12-10-90		X	
7	Shape & Fine grade Inside dike slope.	X		22+30 to 27+00	12-10-90		X	
8	Place Road way Aggregate	X		22+30 to 27+16	12-10-90		X	

GENESEE RIVER PARTIAL CHANNELIZATION PROJECT
AND
SOUTH LANDFILL AREA REMEDIATION
SINCLAIR REFINERY SITE
WELLSVILLE, N.Y.

FINAL INSPECTION
SLA REMEDIATION
AND
GENESEE RIVER PARTIAL CHANNELIZATION PROJECT

OCTOBER 3, 1991

SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST
DATE: 9-30-91

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		SLA	NDE	STA.				
1	KNOCK DOWN RIGS & HUMPS	X		27+00	10-2-91		X	
2	MOVE METAL PLATE TO SUPPORT AREA	X		27+10	10-2-91		X	
3	PLACE AGGRAGATE ON RAMP ROADWAY	X		26+50	10-2-91		X	
4	RESLOPE ROADWAY AT BOTTEM OF RAMP SO IT WILL DRAIN	X		26+50 AT RAMP TOE	10-2-91		X	
5	CHECK SLA SURFACE FOR LOW SPOTS	X		SLA AREA	10-2-91		X	
6	PICK-UP LOOSE ROCK OVER 2"Ø	X		SLA AREA	10-2-91		X	
7	SMOOTH OUT RIGS, TRACKS & SOFT SPOTS	X		SLA AREA	10-2-91		X	
8	DRESS-UP DIKE SLOPE	X		22+00 to 26+00	10-2-91		X	

SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST
DATE: 9-30-91

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		SLA	NDE	STA.				
9	SMOOTH-OUT RIG AT BOTTEM OF DIKE SLOPE	X		22+00 + 24+50	10-2-91		X	
10	FINE GRADE AROUND MONITOR WELL	X		23+00	10-2-91		X	
11	SMOOTH OUT RIG ALONG TDE OF COMMON FILL AREA	X		ALL ALONG TDE	10-2-91		X	
12	KNOCK DOWN WASTE MATERIAL PILE	X		BETWEEN TDE & SLA WASTE	10-2-91		X	
13	BLEND TOP SOIL INTO EXISTING TREE LINE	X		ROAD TO SLOPE TDE	10-2-91		X	
14	REMOVE SURVEY STAKES	X		SLA AREA	10-2-91		X	
15	REMOVE BROKEN TREE LIMB	X		AT ROAD WAY	10-2-91		X	
16	REMOVE BOARDS & DEBRI.	X		TREE AREA	10-2-91		X	

SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST
DATE: 9-30-91

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		SLA	NDE	STA.				
17	FINE GRADE ACCESS ROADWAY	X		ALONG WEST SIDE SLA	10-2-91		X	
18	PICK-UP TRASH & DEBRJ	X		SLA AREA	10-2-91		X	
20	SEED & MULCH	X		SLA AREA	10-3-91		X	
21	REPAIR DISTURBED AREAS	X		SLA WORK AREA	10-3-91		X	

SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST
DATE: 10-2-91

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		SLA	NDE	STA.				
1	SPREAD & SHAPE MATERIALS PILES		X	3+00	10-3-91		X	
2	RESHAPE RIP RAP AT TOP EDGE OF DIKE		X	0+00 to 2+00	10-3-91		X	
3	PULL-IN TOP EDGE OF LANDSIDE SLOPE.		X	0+00 to -2+50	10-3-91		X	
4	FILL LOW SPOTS & VOIDS IN RIP RAP		X	0+00 to -2+50	10-3-91		X	
5	FILL IN AT LOWER EDGE OF RIP RAP		X	0+00 to -2+50	10-3-91		X	
6	RAKE & BLEND LOOSE DIRT & ROCK AT LOWER EDGE OF RR		X	0+00 to -2+50	10-3-91		X	
7	REMOVE EXCESS MATERIAL FROM TOP OF DIKE		X	0+50 to -2+75	10-3-91		X	
8	PICK-UP STONE & PIPE OUTSIDE SILT FENCE		X	ALL ALONG	10-3-91		X	

SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST
DATE: 10-2-91

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		SLA	NDE	STA.				
9	SEED & MULCH LAND SIDE SLOPE		X	0+00 to -2+50	10-3-91		X	
10	SEED & MULCH DISTURBED AREAS OUTSIDE SILT FENCE		X	ALL ALONG	10-3-91		X	
11	PULL & PICK-UP ALL SURVEY STAKES		X	AREA	10-3-91		X	
12	REPAIR DIKE MAINT- ANCE ROAD		X	0+00 to 2+00	10-3-91		X	
13	SEED & MULCH DISTURBED AREAS AROUND DRUM YARD		X	NORTH SIDE	10-3-91		X	
14	RE-CONNECT DRUM YARD FENCE		X	NORTH SIDE	10-3-91		X	
15	ERECT TEMP. BARRIER FENCE ALONG TOP OF WING DIKE		X	TOP OF W DIKE	10-3-14		X	
16	INSTALL ADDITIONAL POST ALONG TEMP BARRIER FENCE		X	ALONG R/ROAD BANK	10-3-14		X	

SINCLAIR REFINERY SITE
FIELD INSPECTION PUNCH LIST
DATE: 10-2-91

ITEM NO.	DESCRIPTION	LOCATION			INSPT. DATE	RE-INSPT. DATE	ACPT	REJT
		SLA	NDE	STA.				
17	ERECT TEMP. FENCE NORTH OF PIPE GATE		X	EAST SIDE OF ST.	10-3-91		X	
18	COVER DIKE WASTE MATERIAL WITH CLEAN SOIL		X	ON TOP OF CELA	10-3-91		X	



515 South Flower Street
Los Angeles, California 90071
Telephone 213 486 3622
Fax 213 486 1740

David A. Christensen
Project Manager
Environmental Remediation

RECEIVED

SEP 30 1991

THOMAS GRANGER
EBASCO SERVICES INC.

27 September, 1991

US Environmental Protection Agency (EPA)
Region II
26 Federal Plaza, Room 747
New York, New York 10278

Attention: Mr. Michael J. Negrelli
Project Manager

Subject: SINCLAIR REFINERY - WELLSVILLE, NY
RIVER CHANNELIZATION WORK
INSPECTION NOTICE

Gentlemen:

This letter is written to provide notice of final inspection for the River Channelization Work and prefinal inspection for the South Landfill excavation and backfill. Pursuant to Article VI.E.(12) of the Consent Decree, Dated 22 August, 1988 (The Decree), the final inspection will focus on the outstanding construction items identified in EPA's letter of 28 March, 1991.

The inspection is scheduled for Thursday, 3 October, at 9:00 AM. Participants are requested to report to Ebasco's field office conference room for a brief meeting (agenda attached), prior to the job walk.

Please be advised that there is a small amount of work remaining. Although unlikely, several days of rainy weather could impact the scheduled inspection date. Every effort will be made to give all participants sufficient notice, should the scheduled inspection date need to be changed.

Very Truly Yours,


David A. Christensen
Project Manager

Attachment: Agenda

CC: M.D. Smith, Esq.-ARCO
Carol Y. Burns, Esq.-USEPA
J. Boyle-ARMY COE
Atlantic Richfield Company
T. Granger-Ebasco

R.W. Simmons-ARCO
A. Joseph White-NYDEC
V. DiMeglio-ARMY COE
G. Stiles-Ebasco

RIVER CHANNELIZATION
INSPECTION AGENDA

- 9:00 AM Outline and review of the scope of work.
- 10:00 AM Visual inspection of SLA area.
- 11:00 AM Visual inspection of North Dike Extension.
- 12:00 AM Lunch will be served at Ebasco office.
- 1:00 PM Discussion of inspections.

The visual inspection will require walking along the dike maintenance road and site access roads, disposal boots and cover-alls will be provided.



515 South Flower Street
Los Angeles, California 90071
Telephone 213 486 3622
Fax 213 486 1749

David A. Christensen
Project Manager
Environmental Remediation

November 26, 1991

U.S. Environmental Protection Agency (EPA)
Region II
26 Federal Plaza, Room 747
New York, New York 10278

Attention: Mr. Michael J. Negrelli
Project Manager

Subject: SINCLAIR REFINERY SITE - WELLSVILLE, NY
LANDFILL - RIVER CHANNELIZATION/SLA REMEDIATION
NOTICE OF COMPLETION

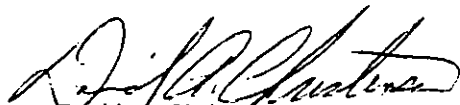
Gentlemen:

In accordance with the Consent Decree between ARCO and EPA, effective 19 May 1989 (The Decree), ARCO hereby provides "Notice of Completion" for the Partial River Channelization of the Genesee River, excavation of wastes from the South Landfill Area (SLA), and filling of the excavated SLA with clean fill. This work is represented in The Decree, Article VI, Part B, as work items 1, 4 and 5.

All work was completed in accordance with The Decree, approved project plans, specifications, and drawings. All documentation supports the satisfactory implementation of the work and represents the as-built condition. The documentation is included as part of the Remedial Action Report.

A final inspection of the subject work was conducted on 3 October 1991, with no outstanding issues. The contractor demobilized from the site with all equipment on 4 October 1991.

Very Truly Yours,



David A. Christensen

cc: R. W. Simmons - ARCO
M. D. Smith, Esq. - ARCO
Carol Y. Burns, Esq. - USEPA
Chief, Environmental Enforcement Section
U.S. Dept. of Justice
James Drumm - NYSDEC
J. Boyle - Army COE, Buffalo
V. DiMeglio - Army COE, New York

APPENDIX F

PERIMETER AIR-MONITORING DATA

HITTMAN EBASCO ASSOCIATES INC.

A Subsidiary of EBASCO SERVICES INCORPORATED

HITTMAN EBASCO

9151 Rumsey Road Suite 150, Columbia, MD 21045-1992
(301) 730-8525

November 19, 1990

*Mr. Vinu Patell
Ebasco Environmental
160 Chubb Avenue
Lyndhurst, NJ 07071*

Dear Mr. Patell:

Enclosed please find results of analyses performed on charcoal tubes received recently from Arco Sinclair Refinery site. This report was transmitted to the site via telecopy on 11/16/90.

The samples were analyzed by gas chromatography using a flame ionization detector.

Please feel free to call me at (301) 730-8525 if you have any questions about this report.

Sincerely,

Betsy

*Elizabeth A. Pickral
Project Manager*

*ESI0 2701
Enclosures
eap*

HITTMAN EBASCO ASSOCIATES, INC.
ANALYTICAL REPORT
EBASCO ENVIRONMENTAL
ARCO SINCLAIR REFINERY
CHARCOAL TUBES
ESIO 2701
NOVEMBER 19, 1990

November 16, 1990

Client: Ebasco Environmental

Case: ESI0-2701

Analysis: Volatiles on Charcoal By GC/FID

Project Title: Charcoal Sampling

<u>Client ID</u>	<u>HEAI ID</u>	<u>Date Sampled</u>	<u>Date Received</u>	<u>Date Analyzed</u>
SR-AM-01	12914	10/24/90	10/30/90	11/13/90
SR-AM-02	12915	10/24/90	10/30/90	11/13/90
SR-AM-03	12916	10/24/90	10/30/90	11/13/90
SR-AM-04	12917	10/24/90	10/30/90	11/13/90
SR-AS-23	12988	10/31/90	11/02/90	11/13/90
SR-AS-24	12989	10/31/90	11/02/90	11/13/90
SR-AS-25	12990	10/31/90	11/02/90	11/13/90
SR-AS-26	12991	10/31/90	11/02/90	11/13/90
SR-AS-27	13251	11/08/90	11/09/90	11/13/90
SR-AS-28	13252	11/08/90	11/09/90	11/13/90
SR-AS-29	13253	11/08/90	11/09/90	11/13/90
SR-AS-45	13254	11/08/90	11/09/90	11/13/90

The front portion of twelve charcoal tubes was desorbed into 2ml of carbon disulfide and analyzed for benzene, methyl isobutyl ketone, 2-hexanone, 1,1,2,2-tetrachloroethane, ethylbenzene, nitrobenzene, naphthalene, and xylenes. The detection limit is 0.10 mg/monitor for all compounds except total xylenes which is 0.30 mg/monitor. The QC passed laboratory criteria.

Samples SR-AS-23 (12988) and SR-AS-24 (12989) showed a hydrocarbon pattern similar to gasoline. In sample SR-AS-23 this was at trace levels and in sample SR-AS-24 the peak heights were similar to the low (0.10mg/mL) individual compound standards.

The enclosed package consists specifically of tabulated sample results reported without correcting for desorption efficiency. If you want results corrected for desorption efficiency, the laboratory will need a blank tube to perform this test.

Please do not hesitate to call Miss Betsy Pickral or Mrs. Thuy Nguyen if more information is needed or if questions arise.

Data Released by

Thuy L. Nguyen
11/16/90

HITTMAN EBASCO ASSOCIATES INC.
 ORGANIC ANALYSIS DATA SHEET
 FRONT PORTION OF TUBE
 ESIO-2701
 WELLSVILLE

CLIENT ID	HEAI ID	Date Prepared	Date Analyzed	Benzene mg/tube	MIBK mg/tube	2-Hexanone mg/tube	1,1,2,2 TCA mg/tube	Ethylbenzene mg/tube	Nitrobenzene mg/tube	Naphthalene mg/tube	Xylenes mg/tube
SR-AM-01	12914	11/13/90	11/13/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AM-02	12915	11/13/90	11/13/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AM-03	12916	11/13/90	11/13/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AM-04	12917	11/13/90	11/13/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AS-23	12988	11/13/90	11/13/90	0.10 U	0.10 U	0.10 U	0.37	0.10 U	0.10 U	0.10 U	0.30 U
SR-AS-24	12989	11/13/90	11/13/90	0.10 U	0.10 U	0.44	2.2	0.10 U	0.10 U	0.10 U	1.3
SR-AS-25	12990	11/13/90	11/13/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AS-26	12991	11/13/90	11/13/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AS-27	12351	11/13/90	11/13/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AS-28	12352	11/13/90	11/13/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AS-29	12353	11/13/90	11/13/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AS-45	12354	11/13/90	11/13/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U

U - Indicates that a compound was analyzed for but not detected at or above the indicated concentration

HITTMAN EBASCO ASSOCIATES INC.

A Subsidiary of EBASCO SERVICES INCORPORATED

HITTMAN EBASCO

9151 Rumsey Road Suite 150, Columbia, MD 21045-1992
(301) 730-8525

December 6, 1990

*Mr. Jeff Reynolds
Ebasco Environmental
160 Chubb Avenue
Lyndhurst, NJ 07071*

Dear Jeff:

Enclosed are results of volatiles analyses performed on charcoal tubes received recently from the ARCO site. These data should complete reporting for the air monitoring phase of the project.

The samples were analyzed by gas chromatography using a flame ionization detector.

Please feel free to call me at (301) 730-8525 if you have any questions about this report.

Sincerely,

Betsy

*Elizabeth A. Pickral
Project Manager*

*ESI0 2701
Enclosures
eap*

HITTMAN EBASCO ASSOCIATES, INC.
ANALYTICAL REPORT
EBASCO ENVIRONMENTAL
ARCO AIR SAMPLING
GC VOLATILES ON CHARCOAL TUBES
ESI0 2701
DECEMBER 6, 1990

HITTMAN EBASCO ASSOCIATES

December 3, 1990

Client: Ebasco Environmental

Case: ESI0-2701

Analysis: Volatiles on Charcoal By GC/FID

Project Title: Charcoal Sampling

<u>Client ID</u>	<u>HEAI ID</u>	<u>Date Sampled</u>	<u>Date Received</u>	<u>Date Analyzed</u>
SR-AS-49	13386	11/09/90	11/14/90	11/28/90
SR-AS-50	13387	11/09/90	11/14/90	11/28/90
SR-AS-51	13388	11/09/90	11/14/90	11/28/90
SR-AS-52	13389	11/09/90	11/14/90	11/28/90

The front portion of four charcoal tubes was desorbed into 2ml of carbon disulfide and analyzed for benzene, methyl isobutyl ketone, 2-hexanone, 1,1,2,2-tetrachloroethane, ethylbenzene, nitrobenzene, naphthalene, and xylenes. The detection limit is 0.10 mg/monitor for all compounds except total xylenes which is 0.30 mg/monitor. The QC passed laboratory criteria.

Samples SR-AS-49 (13386) and SR-AS-51 (13388) showed trace hydrocarbon patterns similar to gasoline.

The enclosed package consists specifically of tabulated sample results reported without correcting for desorption efficiency.

Please do not hesitate to call Miss Betsy Pickral or Mrs. Thuy Nguyen if more information is needed or if questions arise.

Data Released by McKay L. Nguyen 12/3/90

HITTMAN EBASCO ASSOCIATES INC.
 ORGANIC ANALYSIS DATA SHEET
 FRONT PORTION OF TUBE
 ESIO-2701
 WELLSVILLE

CLIENT ID	HEAT ID	Date Prepared	Date Analyzed	Benzene mg/tube	MMK mg/tube	2-Hexanone mg/tube	1,1,2,2 TCA mg/tube	Ethylbenzene mg/tube	Nitrobenzene mg/tube	Naphthalene mg/tube	Xylenes mg/tube
SR-AS-49	13386	11/28/90	11/28/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AS-50	13387	11/28/90	11/28/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AS-51	13388	11/28/90	11/28/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U
SR-AS-52	13389	11/28/90	11/28/90	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.30 U

U - Indicates that a compound was analyzed for but not detected at or above the indicated concentration