U.S. Environmental Protection Agency
Region 7

Site: Agromac-Lockwood
ID# NESFN0703537
Break: 17.6
Other: 68-S7-01-41
N/D

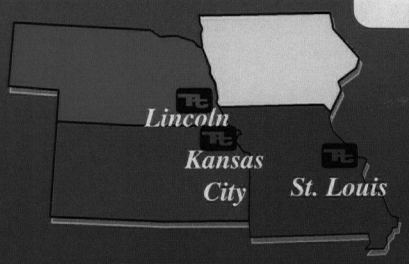
Superfund Technical Assessment and Response Team (START) 2 Contract

Contract No. 68-S7-01-41

Appendix A, Appendix B, Appendix C, Appendix D, Appendix E, Appendix F, Appendix G, Appendix H,

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

40088824
SUPERFUND RECORDS

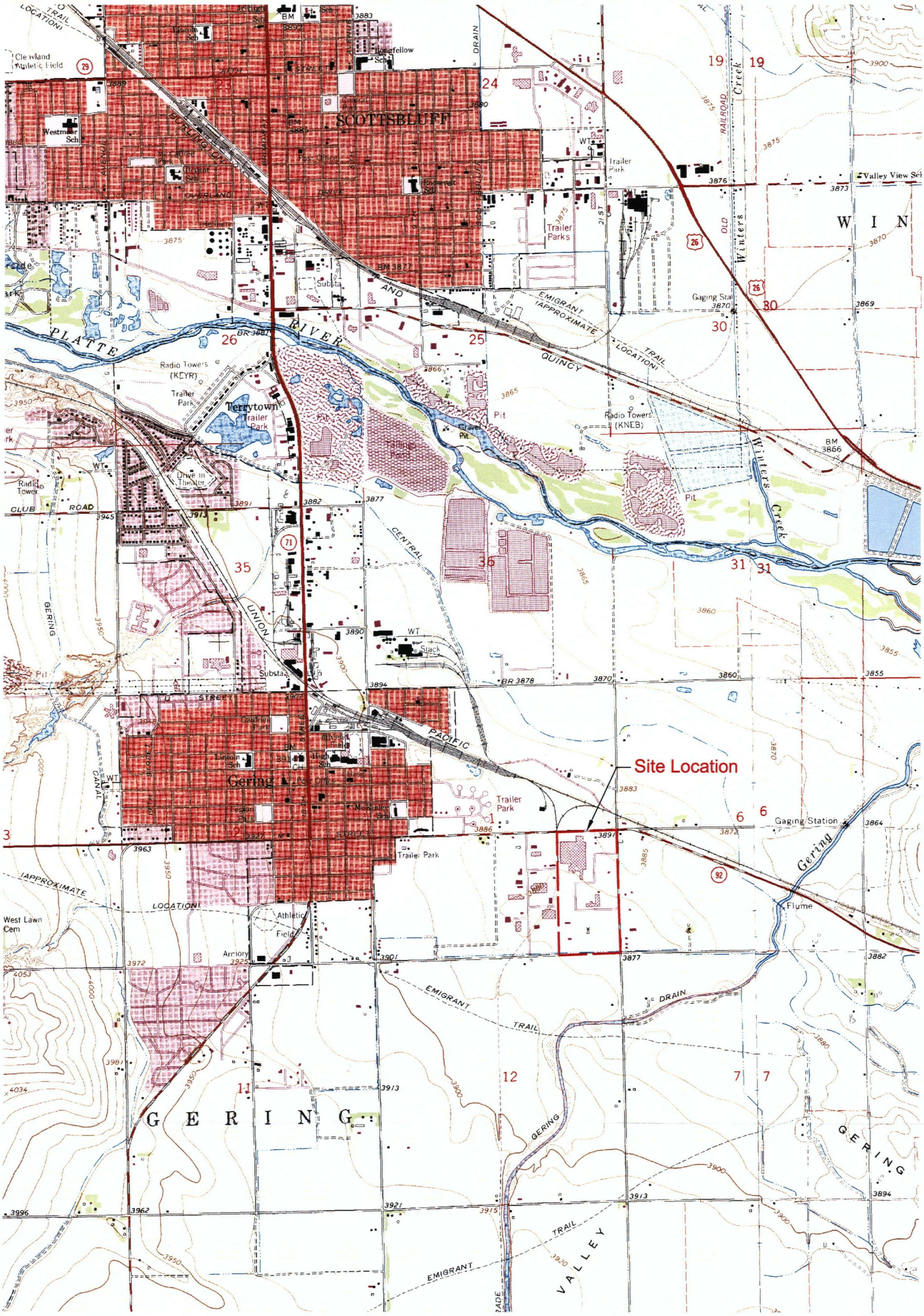


Tetra Tech EM Inc.

Printed on Recycled Paper

APPENDIX A

FIGURES



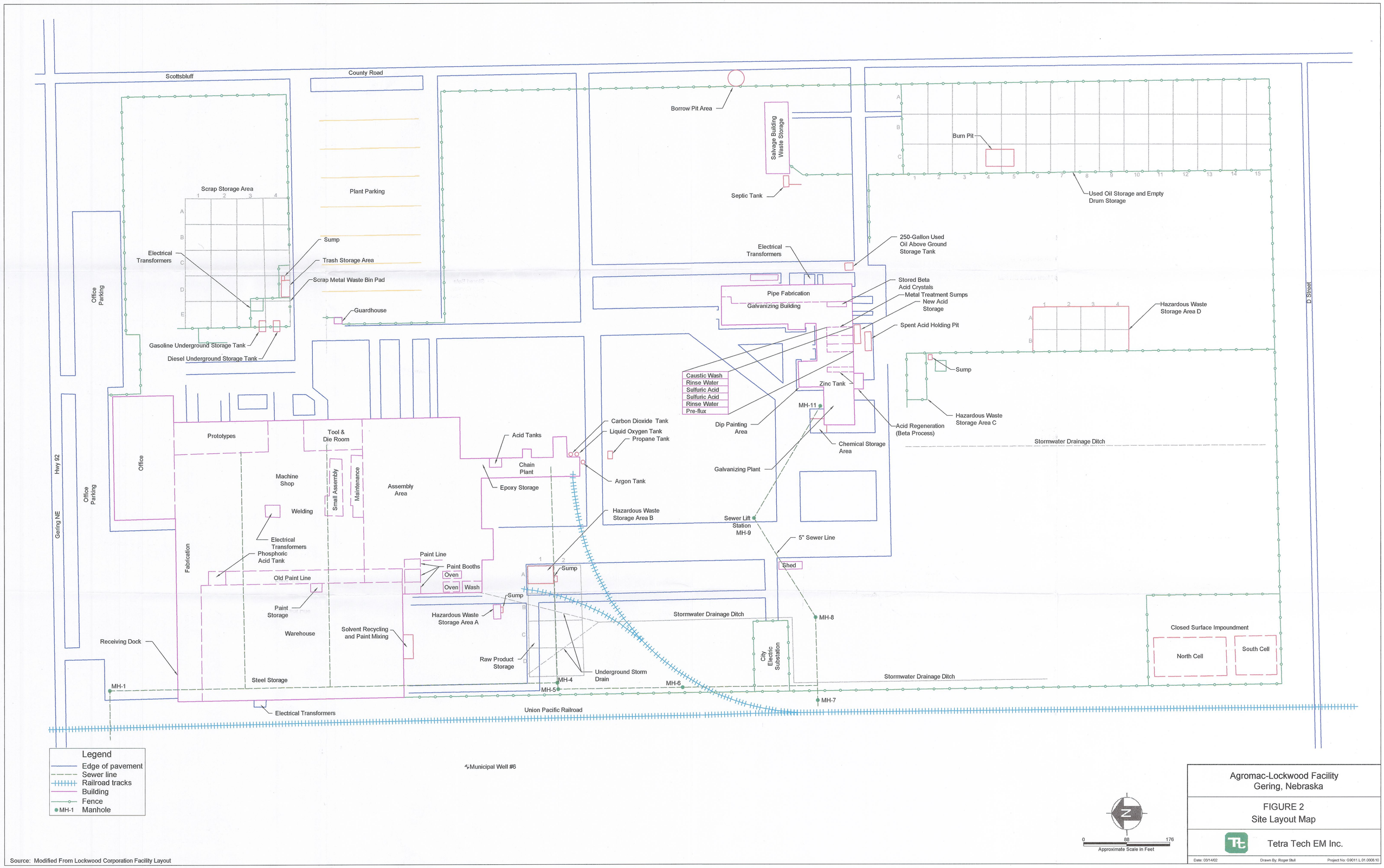
SOURCE: U.S. Geological Survey Scottsbluff South, NE 7.5 Minute Topologic Quadrangle, 1963, Photo Revised 1976
U.S. Geological Survey Minatare, NE 7.5 Minute Topologic Quadrangle, 1965

Agromac-Lockwood Facility
Gering, Nebraska

FIGURE 1
Site Location Map

Tetra Tech EM Inc.

Date: 02/05/02 | Drawn By: Roger Stull | Project No: G9011.L.01.0008.10



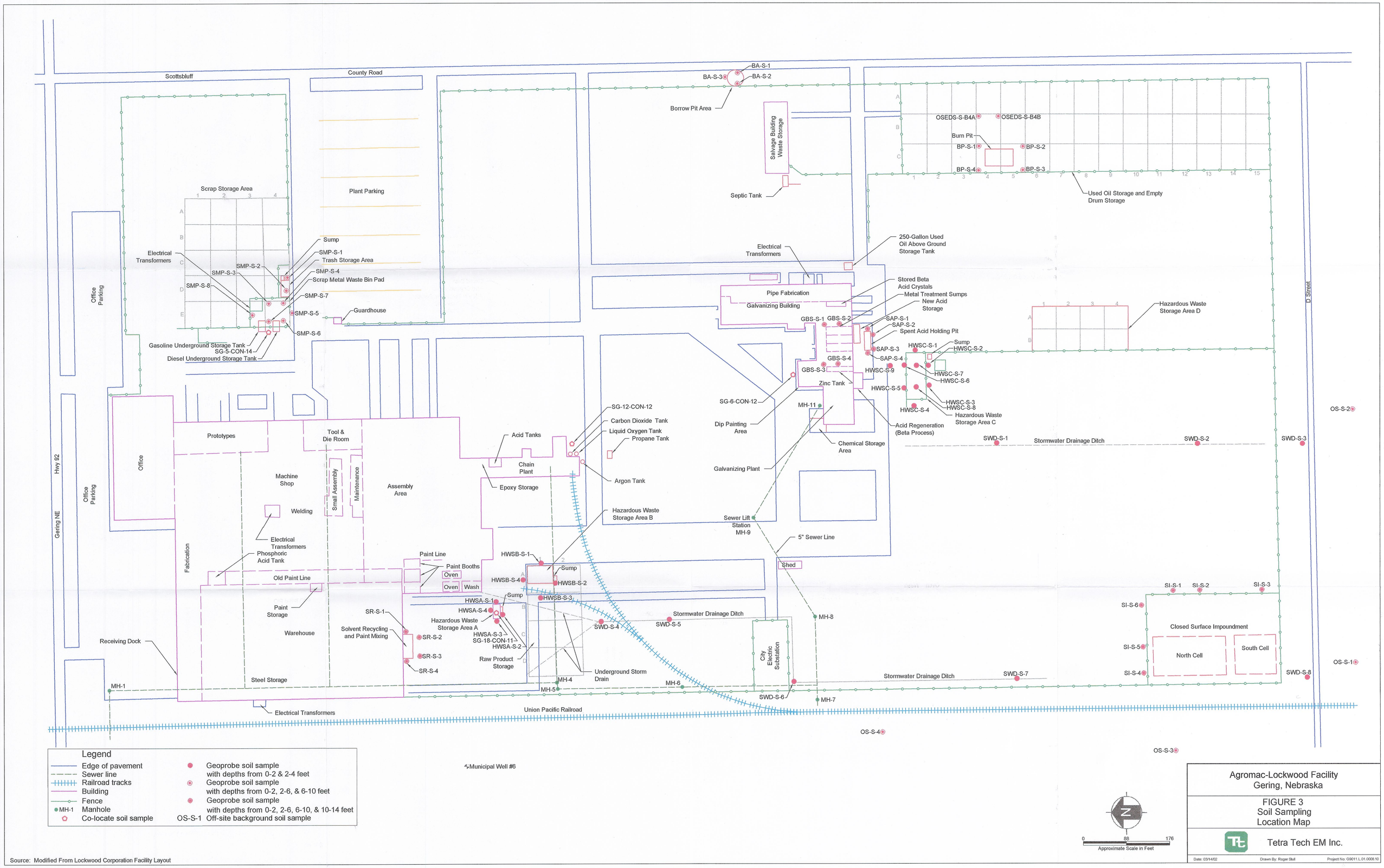
Source: Modified From Lockwood Corporation Facility Layout

Agromac-Lockwood Facility
Gering, Nebraska

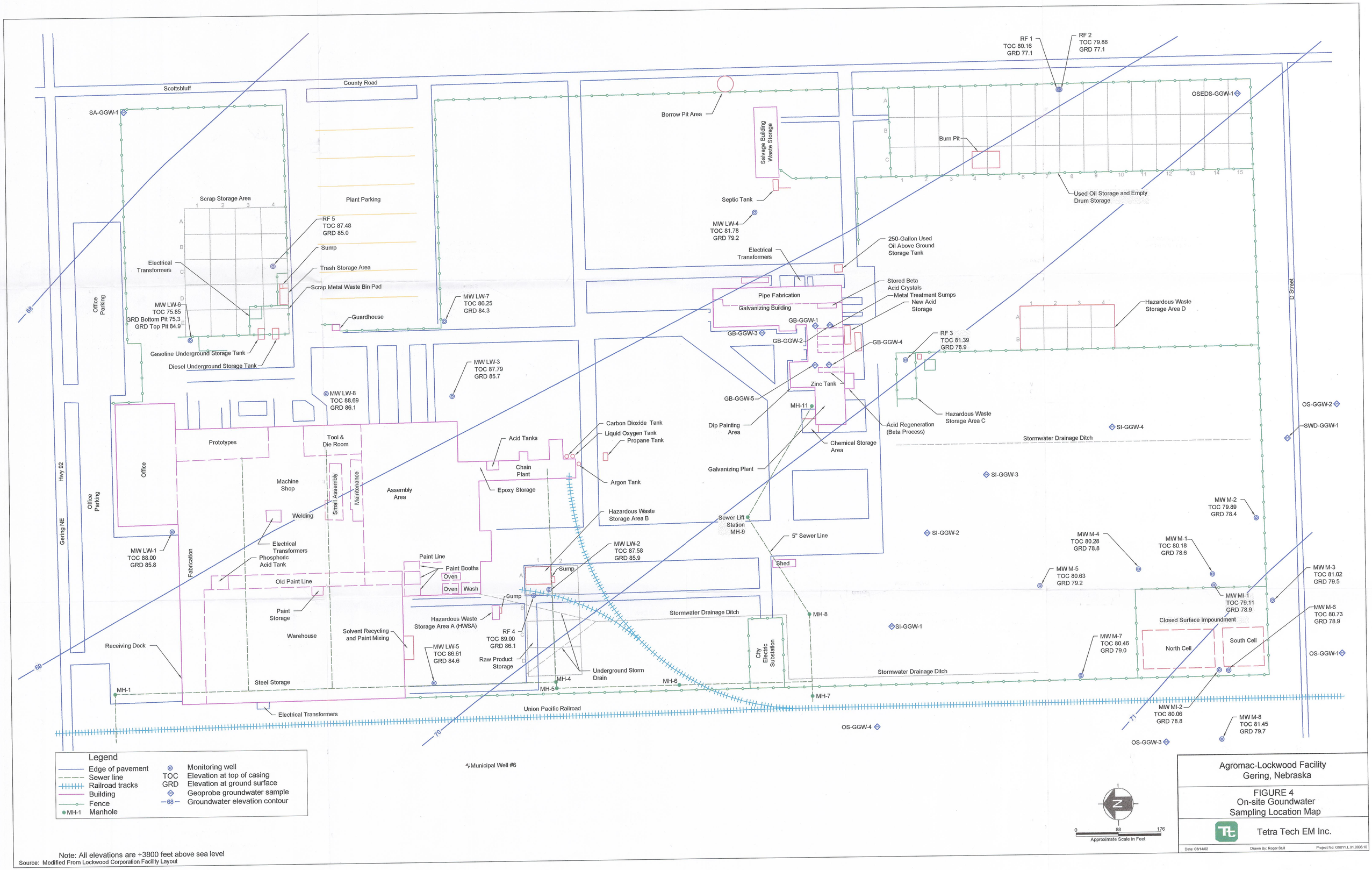
FIGURE 2
Site Layout Map

Tetra Tech EM Inc.

Date: 03/14/02 Drawn By: Roger Stull Project No: G9011.L.01.0008.10



Source: Modified From Lockwood Corporation Facility Layout



Note: All elevations are +3800 feet above sea level

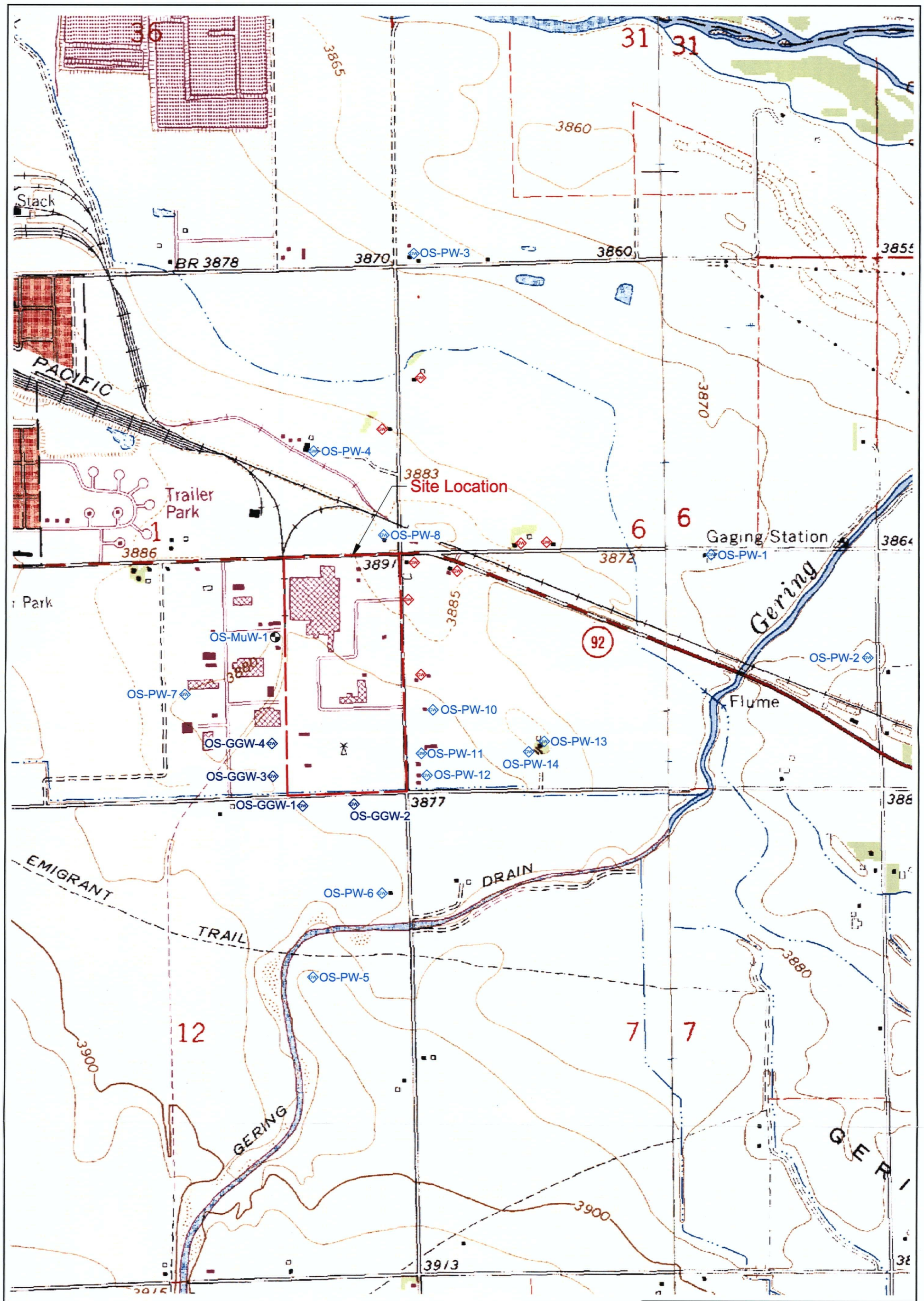
Source: Modified From Lockwood Corporation Facility Layout

Agromac-Lockwood Facility
Gering, Nebraska

FIGURE 4
On-site Goundwater
Sampling Location Map

Tetra Tech EM Inc.

Date: 03/14/02 | Drawn By: Roger Stull | Project No: G9011.L.01.0008.10



Legend
- Geoprobe groundwater sample
- Private well sample location
- Private well sample refusal
- Gering municipal well

N

0 500 1000
Scale in Feet

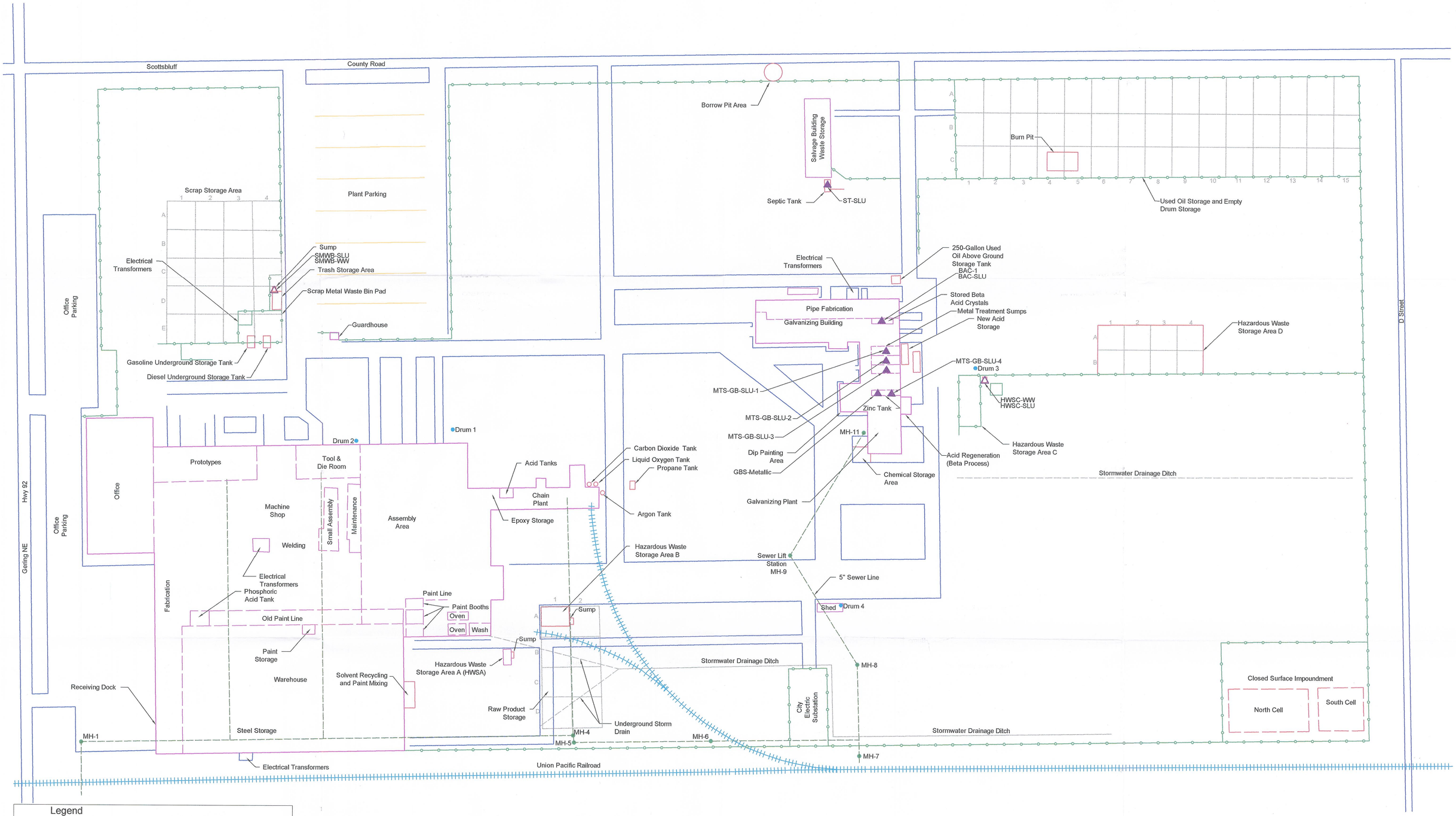
SOURCE: U.S. Geological Survey Scottsbluff South, NE 7.5 Minute Topologic Quadrangle, 1963, Photo Revised 1976
U.S. Geological Survey Minatare, NE 7.5 Minute Topologic Quadrangle, 1965

Agromac-Lockwood Facility
Gering, Nebraska

FIGURE 5
Off-site Groundwater
Sampling Location Map

Tetra Tech EM Inc.

Date: 03/18/02 Drawn By: Roger Stull Project No: G9011.L.01.0008.10



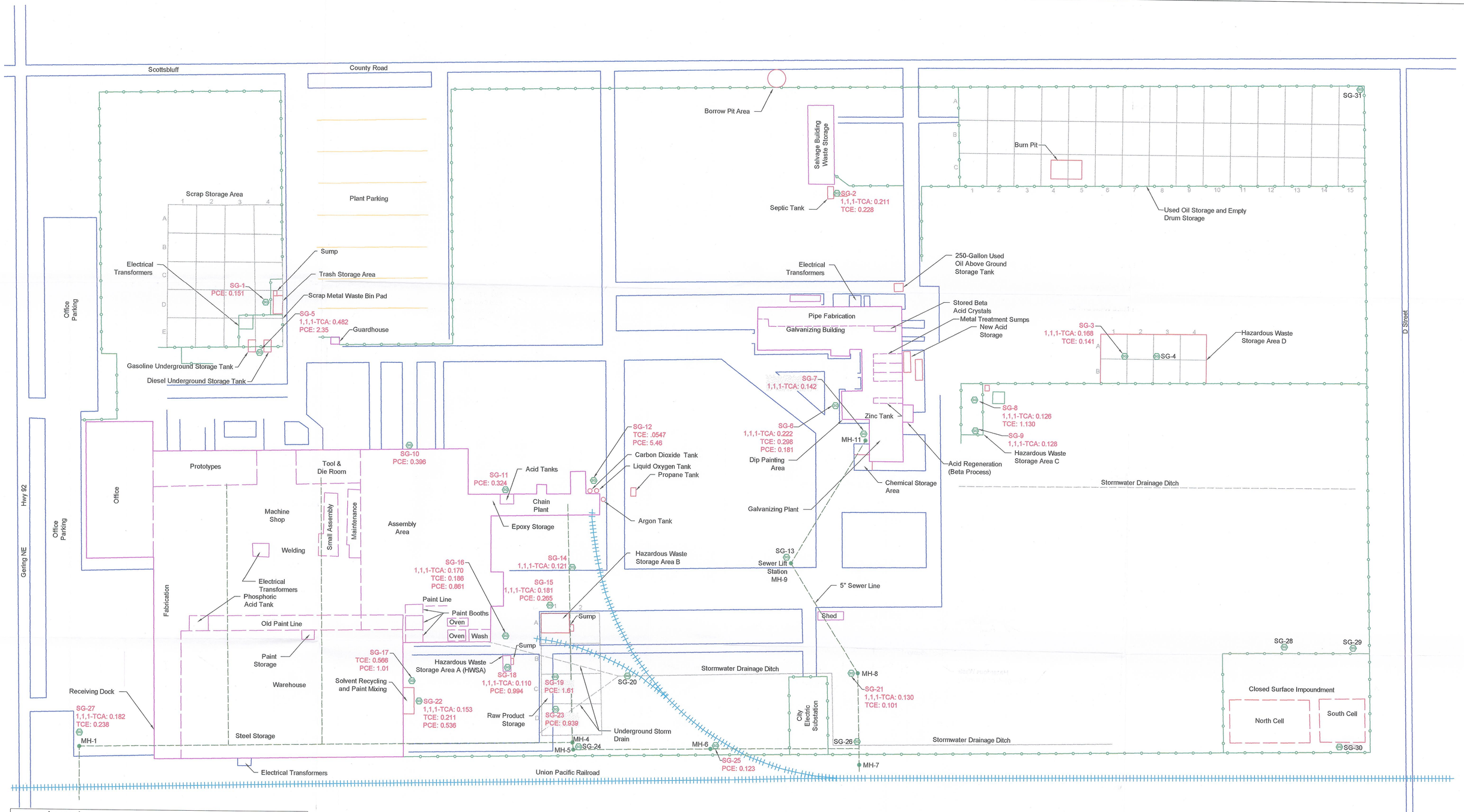
Source: Modified From Lockwood Corporation Facility Layout

Agromac-Lockwood Facility
Gering, Nebraska

FIGURE 6
Sludge, Wastewater, and Drum Sampling Location Map

Tetra Tech EM Inc.

Date: 03/14/02 | Drawn By: Roger Stull | Project No: G9011.L.01.0006.10



Legend

- Edge of pavement
- Sewer line
- Railroad tracks
- Building
- Fence
- MH-1 Manhole
- Soil gas sample

1,1,1-TCA 1,1,1-Trichloroethane
TCE Trichloroethene
PCE Tetrachloroethene

Note: Sample IDs and results highlighted in red exceed the U.S. Environmental Protection Agency Region 9 Preliminary Remediation Goals. Results are reported in milligrams per kilogram.

Source: Modified From Lockwood Corporation Facility Layout

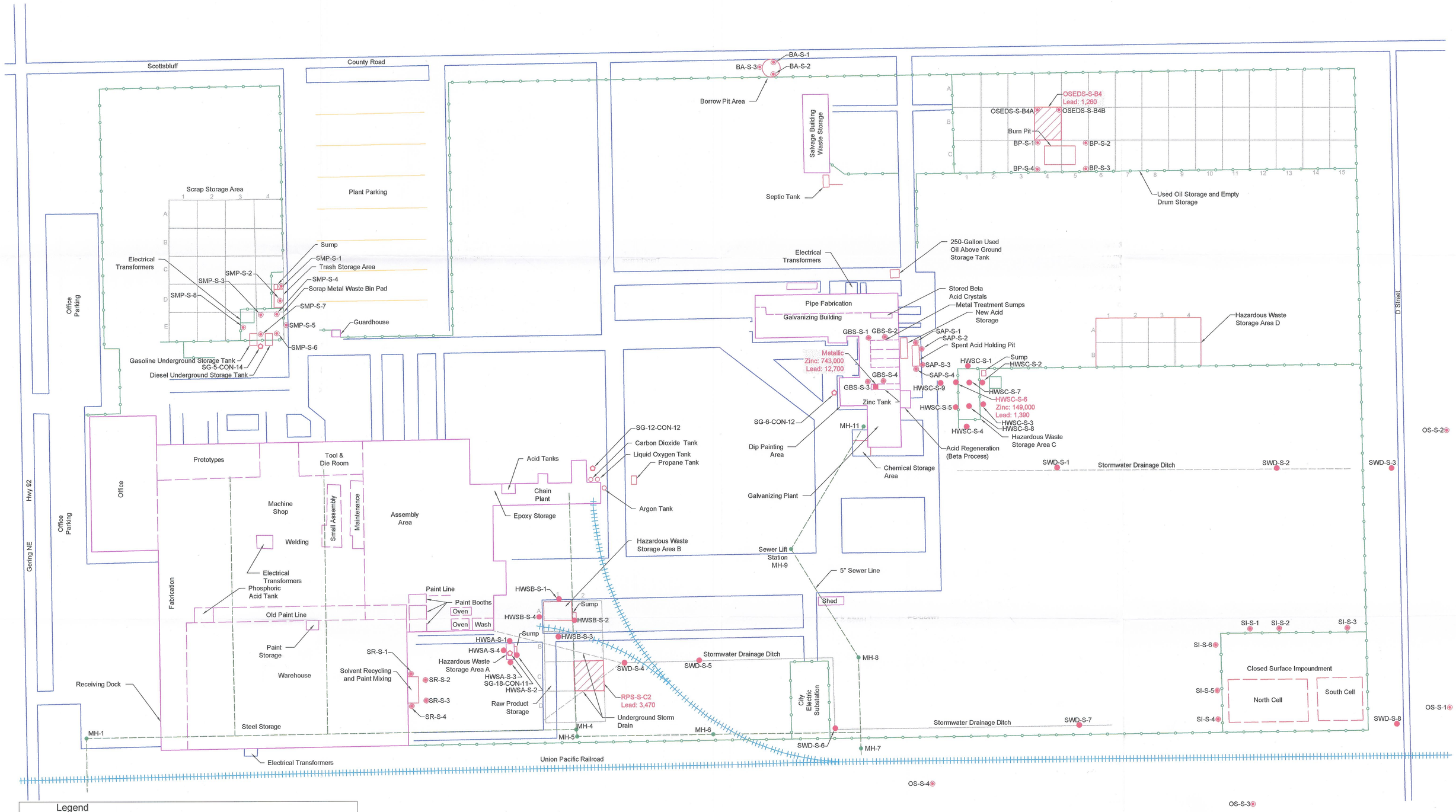
0 88 176
Approximate Scale in Feet

Agromac-Lockwood Facility
Gering, Nebraska

FIGURE 7
Soil Gas Sampling
Location Map

Tetra Tech EM Inc.

Date: 03/14/02 Drawn By: Roger Stull Project No: G9011.L.01.0008.10



Legend

- Edge of pavement
- Sewer line
- Railroad tracks
- Building
- Fence
- MH-1 Manhole
- Co-locate soil sample
- Geoprobe soil sample with depths from 0-2 & 2-4 feet
- Geoprobe soil sample with depths from 0-2, 2-6, & 6-10 feet
- Geoprobe soil sample with depths from 0-2, 2-6, 6-10, & 10-14 feet
- OS-S-1 Off-site background soil sample

Note: Sample IDs and results highlighted in red exceed the U.S. Environmental Protection Agency Region 9 Preliminary Remediation Goals. Results are reported in milligrams per kilogram.

Source: Modified From Lockwood Corporation Facility Layout

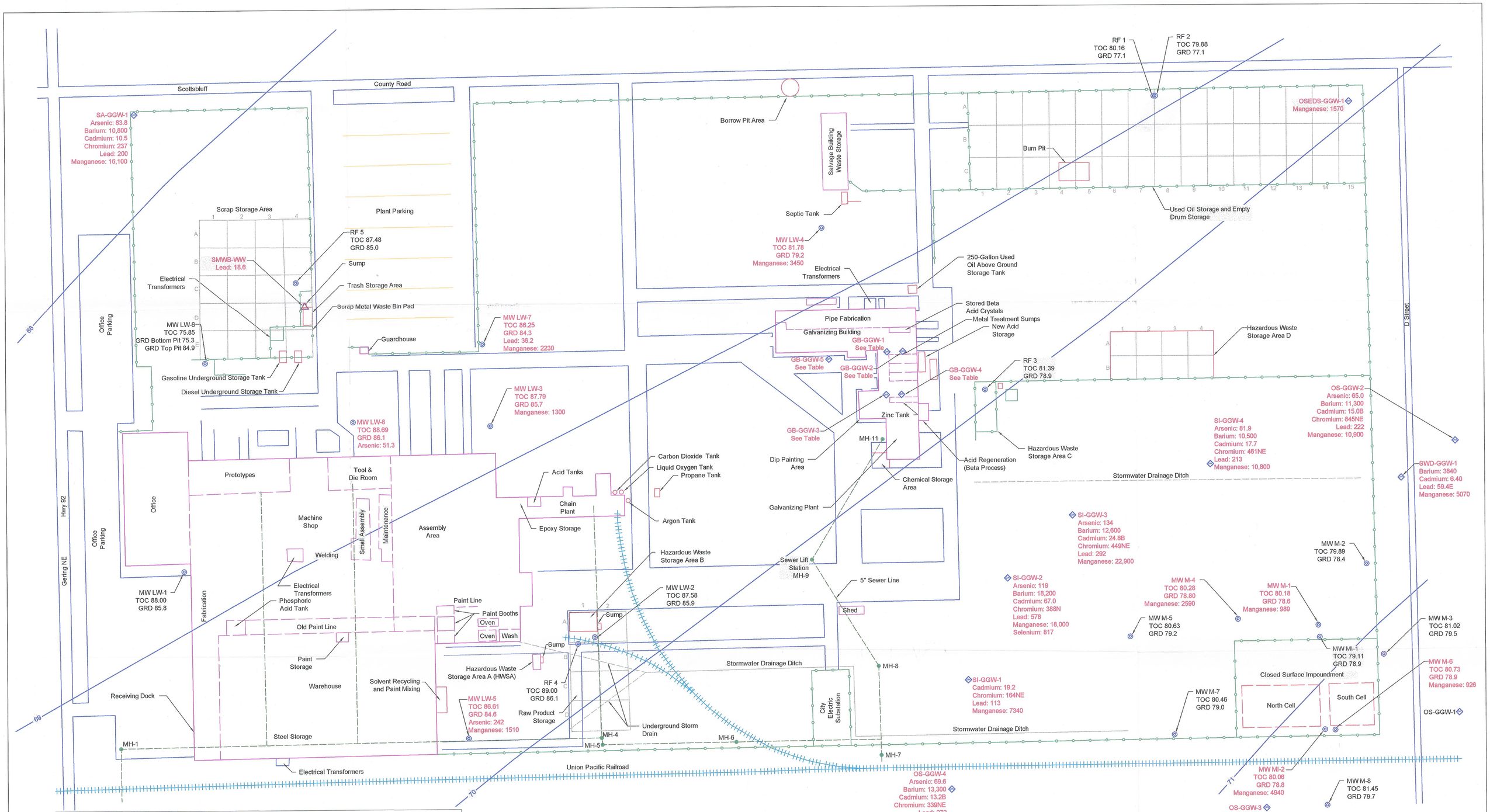
0 88 176
Approximate Scale in Feet

Agromac-Lockwood Facility
Gering, Nebraska

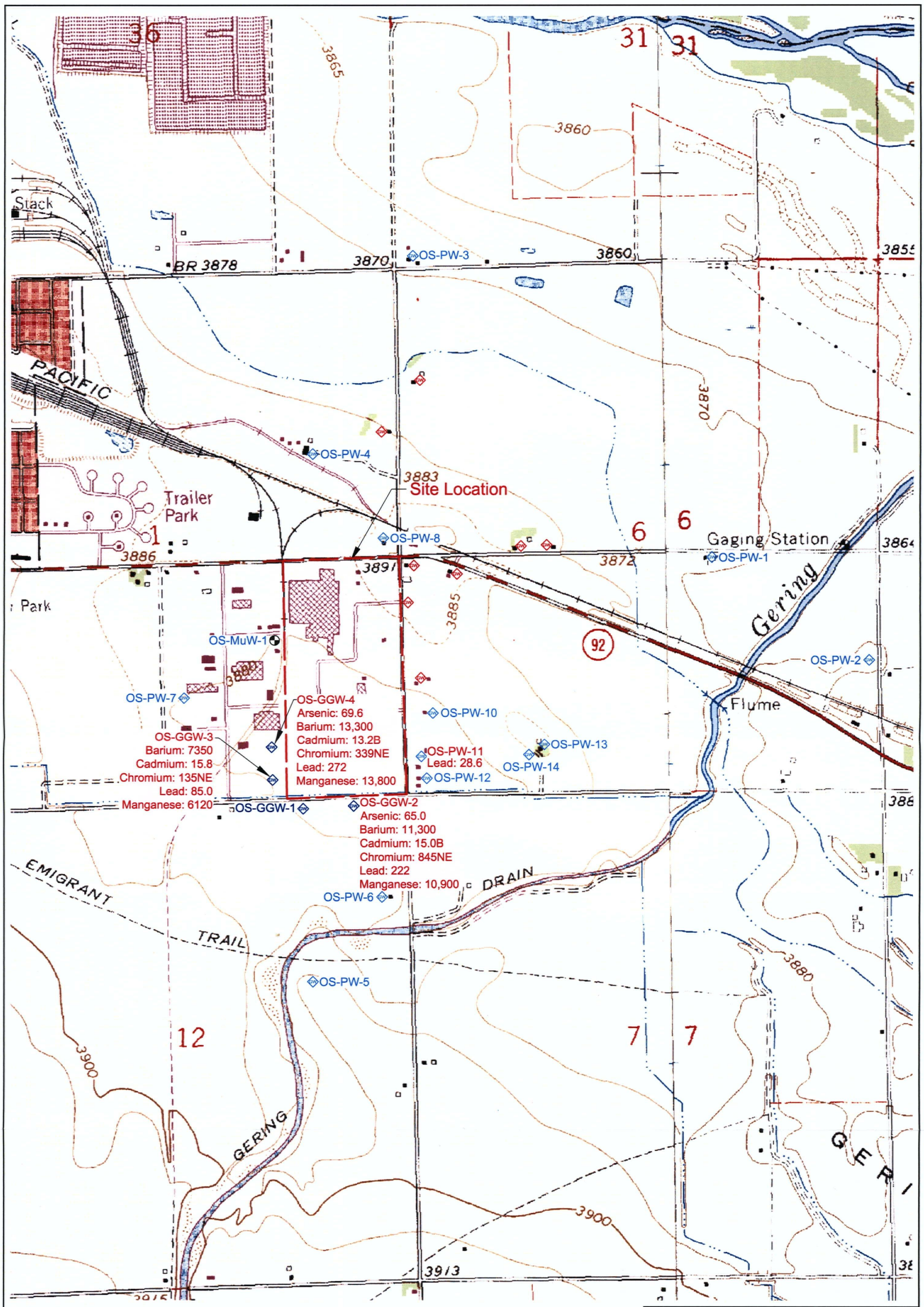
FIGURE 8
Metals Concentrations in Soil and Sludge

Tetra Tech EM Inc.

Date: 03/14/02 Drawn By: Roger Stull Project No: G9011.L.01.0009.10



Sample Number	Arsenic	Barium	Cadmium	Chromium	Lead	Manganese	Zinc
GB-GGW-1	73.4	13100	13.9B	335NE	178	10300	
GB-GGW-2		4940	16.1	279NE	92.6	8910	21300NE
GB-GGW-3	50.2	2560	5.10	142	82.9E	5240	
GB-GGW-4	87.8	6650	15.7	425NE	220	9220	
GB-GGW-5					23.3E	1340	



Legend

- Geoprobe groundwater sample
- Private well sample location
- Private well sample refusal
- Gering municipal well

N Spiked sample recovery was not within control limits
E Reported value was estimated because of interference
B Reported value was less than the contract required detection limits but greater than or equal to the instrument detection limit

Note: Sample identifications and results highlighted in red exceeded the U.S. Environmental Protection Agency Region 9 Preliminary Remediation Goals. Results reported in milligrams per kilogram.

N

0 500 1000
Scale in Feet

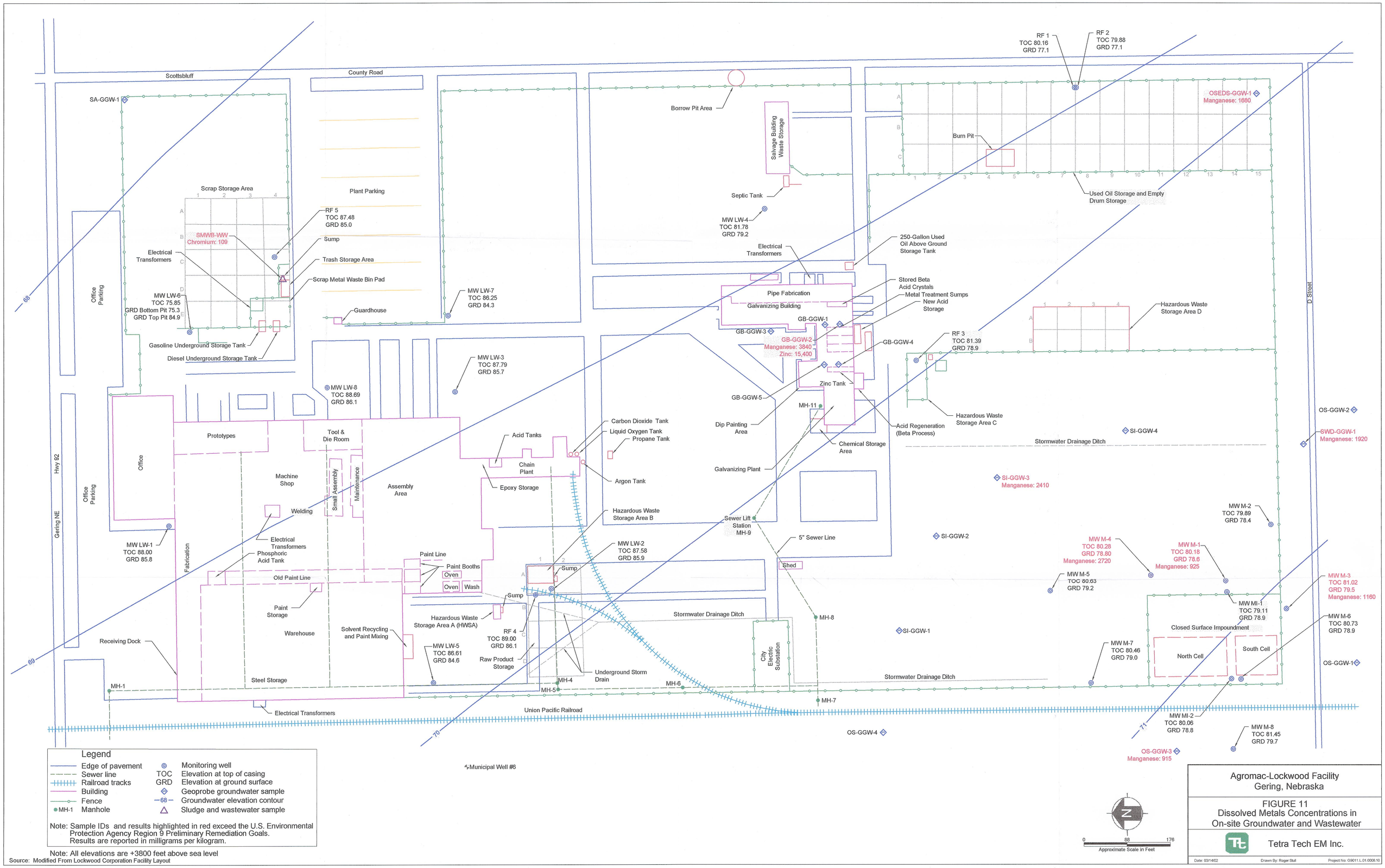
SOURCE: U.S. Geological Survey Scottsbluff South, NE 7.5 Minute Topologic Quadrangle, 1963, Photo Revised 1976
U.S. Geological Survey Minatare, NE 7.5 Minute Topologic Quadrangle, 1965

Agromac-Lockwood Facility
Gering, Nebraska

FIGURE 10
Total Metals Concentrations in Off-site Groundwater

Tetra Tech EM Inc.

Date: 03/18/02 Drawn By: Roger Stull Project No: G9011.L.01.0008.10

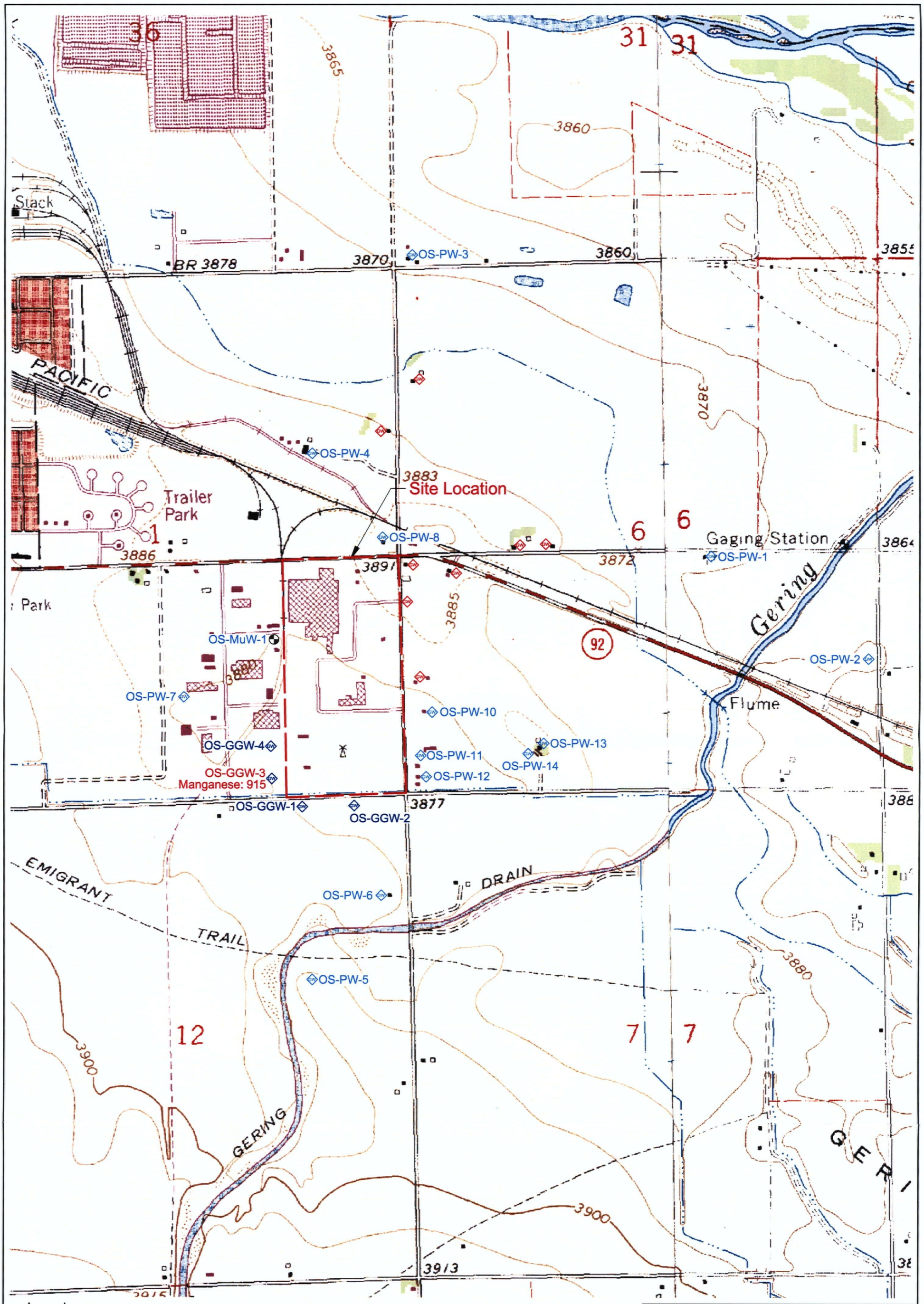


Agromac-Lockwood Facility
Gering, Nebraska

FIGURE 11
Dissolved Metals Concentrations in On-site Groundwater and Wastewater

Tetra Tech EM Inc.

Date: 03/14/02 Drawn By: Roger Stull Project No: G9011.L.01.0008.10



Legend
- Geoprobe groundwater sample
- Private well sample location
- Private well sample refusal
- Gering municipal well

Note: Sample identifications and results highlighted in red exceeded the U.S. Environmental Protection Agency Region 9 Preliminary Remediation Goals. Results reported in milligrams per kilogram.

N

0 500 1000
Scale in Feet

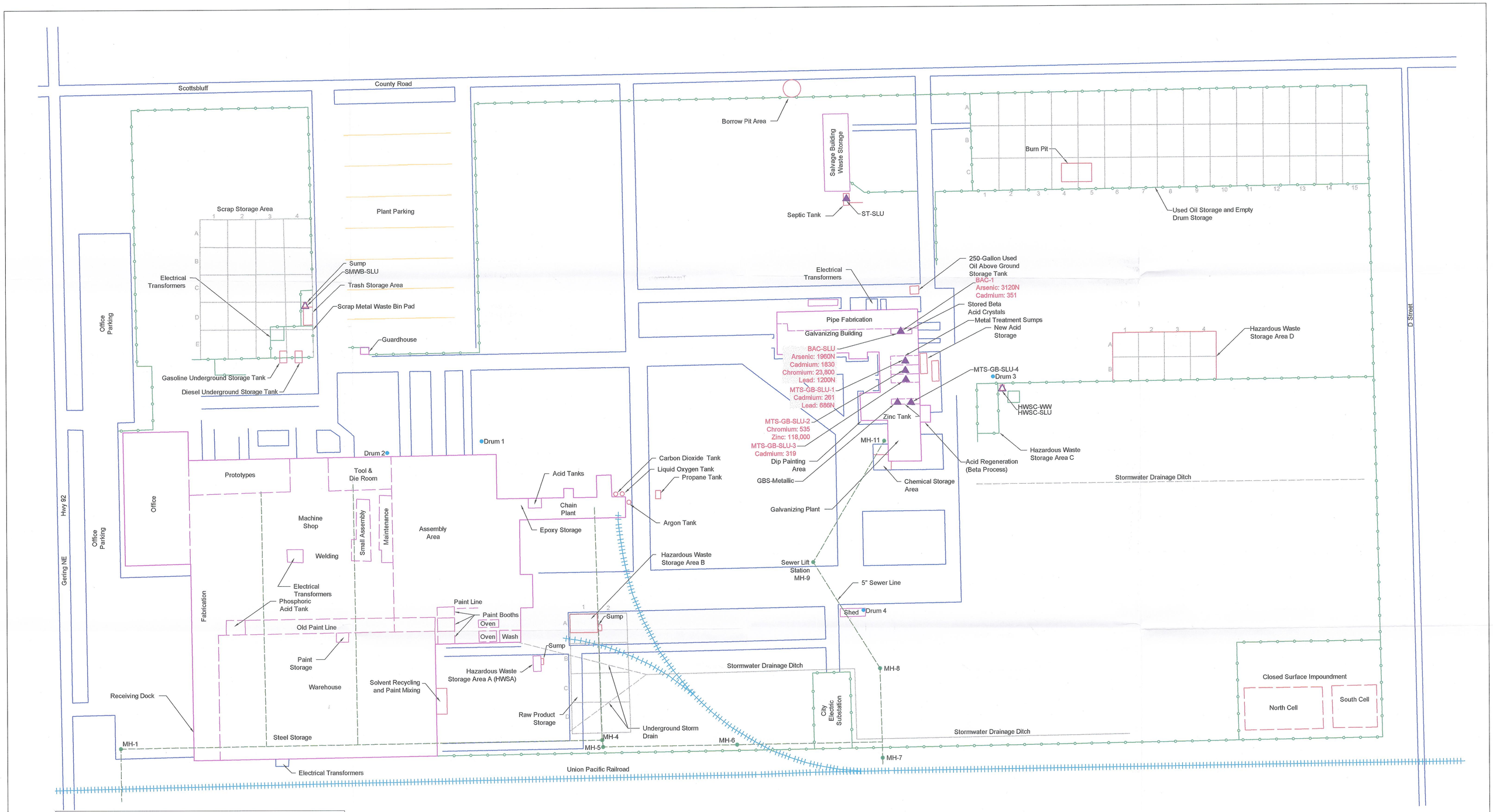
SOURCE: U.S. Geological Survey Scottsbluff South, NE 7.5 Minute Topologic Quadrangle, 1963, Photo Revised 1976
U.S. Geological Survey Minatare, NE 7.5 Minute Topologic Quadrangle, 1965

Agromac-Lockwood Facility
Gering, Nebraska

FIGURE 12
Dissolved Metals Concentrations in Off-site Groundwater

Tetra Tech EM Inc.

Date: 03/18/02 Drawn By: Roger Stull Project No: G9011.L.01.0008.10



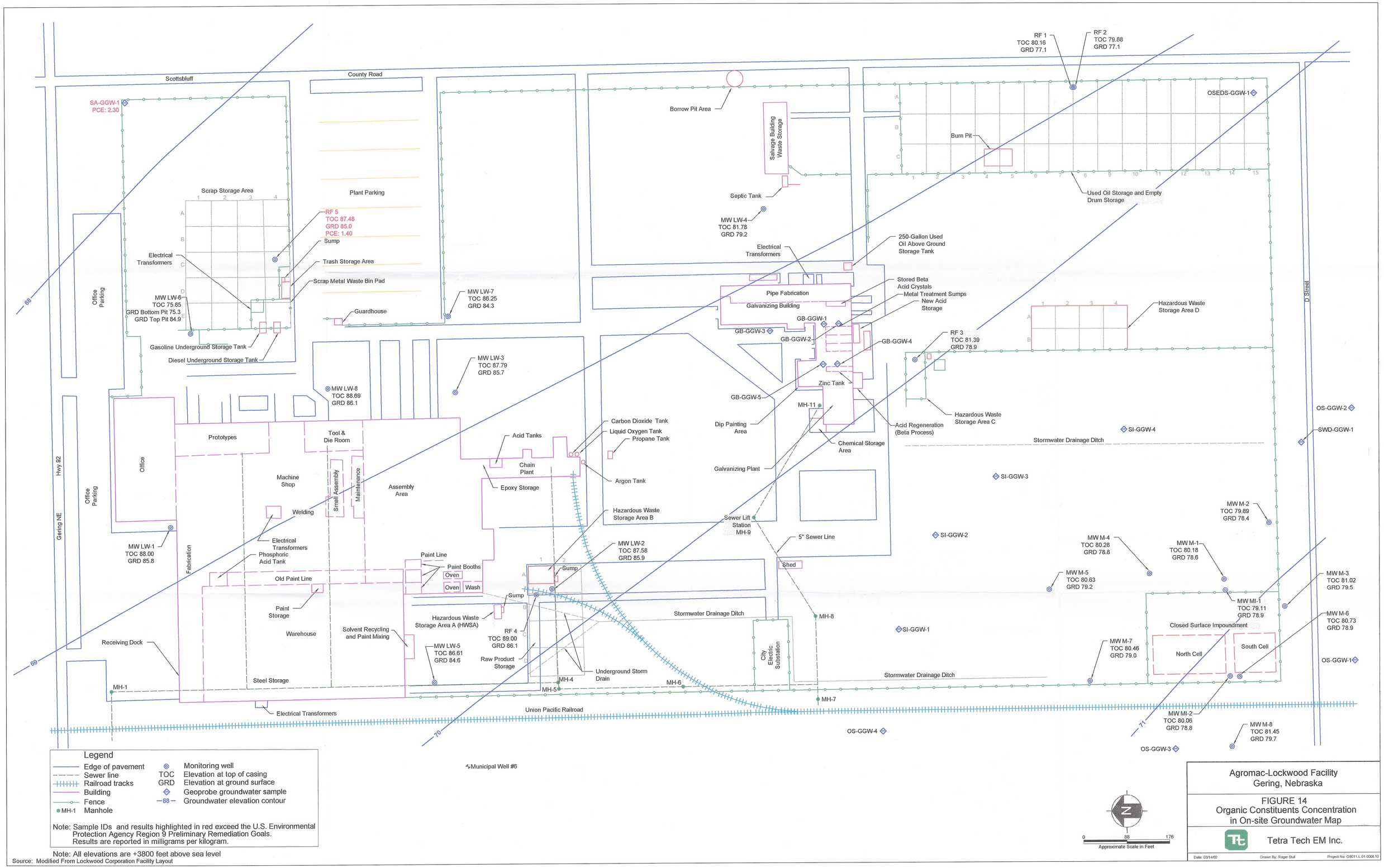
Source: Modified From Lockwood Corporation Facility Layout

Agromac-Lockwood Facility
Gering, Nebraska

FIGURE 13
TCLP Metals Concentrations

Tetra Tech EM Inc.

Date: 03/14/02 Drawn By: Roger Stull Project No: G9011.L.01.0008.10


Scottsbluff
County Road
SA-GGW-1
PCE: 2.30
Scrap Storage Area
Plant Parking
RF 5
TOC 87.48
GRD 85.0
PCE: 1.40
Sump
Trash Storage Area
Scrap Metal Waste Bin Pad
Electrical Transformers
MW LW-6
TOC 75.85
GRD Bottom Pit 75.3
GRD Top Pit 84.9
Guardhouse
Gasoline Underground Storage Tank
Diesel Underground Storage Tank
Office Parking
MW LW-7
TOC 86.25
GRD 84.3
Borrow Pit Area
Salvage Building Waste Storage
Septic Tank
MW LW-4
TOC 81.78
GRD 79.2
RF 1
TOC 80.16
GRD 77.1
RF 2
TOC 79.88
GRD 77.1
OSEDS-GGW-1
Burn Pit
Used Oil Storage and Empty Drum Storage
250-Gallon Used Oil Above Ground Storage Tank
Electrical Transformers
Pipe Fabrication
Galvanizing Building
Stored Beta Acid Crystals
Metal Treatment Sumps
New Acid Storage
GB-GGW-1
GB-GGW-3
GB-GGW-2
GB-GGW-4
GB-GGW-5
Zinc Tank
MH-11
Dip Painting Area
Acid Regeneration (Beta Process)
Chemical Storage Area
Galvanizing Plant
RF 3
TOC 81.39
GRD 78.9
Hazardous Waste Storage Area D
Hazardous Waste Storage Area C
SI-GGW-4
Stormwater Drainage Ditch
SI-GGW-3
SI-GGW-2
SI-GGW-1
OS-GGW-2
SWD-GGW-1
OS-GGW-1
OS-GGW-3
OS-GGW-4
D Street
Hwy 92
Gering NE
68
69
70
71
Office
Office Parking
Prototypes
Tool & Die Room
Machine Shop
Small Assembly
Maintenance
Assembly Area
Welding
Electrical Transformers
Phosphoric Acid Tank
Fabrication
MW LW-1
TOC 88.00
GRD 85.8
MW LW-8
TOC 88.69
GRD 86.1
MW LW-3
TOC 87.79
GRD 85.7
Acid Tanks
Chain Plant
Epoxy Storage
Carbon Dioxide Tank
Liquid Oxygen Tank
Propane Tank
Argon Tank
Hazardous Waste Storage Area B
Sewer Lift Station MH-9
5" Sewer Line
Shed
MW LW-2
TOC 87.58
GRD 85.9
Paint Line
Paint Booths
Oven
Wash
Old Paint Line
Paint Storage
Sump
Hazardous Waste Storage Area A (HWSA)
RF 4
TOC 89.00
GRD 86.1
Raw Product Storage
Solvent Recycling and Paint Mixing
Warehouse
Receiving Dock
MW LW-5
TOC 86.61
GRD 84.6
Steel Storage
MH-1
MH-4
MH-5
MH-6
MH-7
MH-8
Underground Storm Drain
City Electric Substation
Union Pacific Railroad
Municipal Well #6
MW M-2
TOC 79.89
GRD 78.4
MW M-4
TOC 80.28
GRD 78.8
MW M-1
TOC 80.18
GRD 78.6
MW M-5
TOC 80.63
GRD 79.2
MW M-3
TOC 81.02
GRD 79.5
MW MI-1
TOC 79.11
GRD 78.9
MW M-6
TOC 80.73
GRD 78.9
Closed Surface Impoundment
North Cell
South Cell
MW M-7
TOC 80.46
GRD 79.0
MW MI-2
TOC 80.06
GRD 78.8
MW M-8
TOC 81.45
GRD 79.7
Legend
Edge of pavement
Sewer line
Railroad tracks
Building
Fence
MH-1 Manhole
Monitoring well
TOC Elevation at top of casing
GRD Elevation at ground surface
Geoprobe groundwater sample
68 Groundwater elevation contour
Note: Sample IDs and results highlighted in red exceed the U.S. Environmental Protection Agency Region 9 Preliminary Remediation Goals. Results are reported in milligrams per kilogram.
Note: All elevations are +3800 feet above sea level
Source: Modified From Lockwood Corporation Facility Layout
N
0 88 176
Approximate Scale in Feet
Agromac-Lockwood Facility
Gering, Nebraska
FIGURE 14
Organic Constituents Concentration in On-site Groundwater Map
Tetra Tech EM Inc.
Date: 03/14/02
Drawn By: Roger Stull
Project No: G9011.L.01.0008.10

APPENDIX B

SITE LOGBOOK RECORDS

Location Gering NEB Date 1-15-02

Project / Client Agromac/START

8:30 Rick Claylor & Stephanie McCaslin went to purge MW M-2

4 inch well 7.44'
depth to water 7'5 1/4" SM
depth of well 29'
Water depth 21.56'

purge 42 gallons

8:57 well purged to 42 gallons
clean area up & went to next MW

9:01 Decon pump & grab tubing
4 inch well
9:05 M-1 to purge tubing already in place
depth to water 8' SM
depth to well 6' 7 1/2" SM
→ 16.63'
→ 23.60'
total water column 16.97'

Location Gering NEB Date 1-15-02

Project / Client Agromac/START

33 gallons of purged water

9:45 purged 33 gallons
left tubing & went to decon pump

10:00 arrived at M-4 to purge

4 inch well
depth to water 8.42'
depth of well 28.46'
total water depth 20.04'
purge 39 gallons

1005 started to purge

1025 pumped well dry
will let sit for 5 min.

1030 pumped a few more gallons
stopped @ 37 gallons
well pretty dry

Location: Gering NEB Date: 1-15-02

Project / Client: AGROMAC/START

1045 Went back to the office & gathered sampling equipment for MW sampling

1130 Break for lunch

1215 Back to site - gathered pump to filter metal samples

1245 Out to RF1 & RF2 to sample MW

1250 RF1

depth to water 8.58'

Hanna991301

Reading	#1	#2	#3	#4
pH	7.56	7.50	7.50	7.50
temp	50.6°F	51.1°F	51.8°F	52.4°F
cond	2.36 MS	1.34 MS	1.31 MS	1.30 MS

1325 took VOA samples Off site & On site labs & Duplicate

1345 took Metals sample unfiltered & filtered

Location: Gering NEB Date: 1-15-02

Project / Client: AGROMAC/START

cont

using pump

1355 RF2

depth to water 8.83'

Hanna

Reading	#1	#2	#3	#4
pH	7.60	7.59	7.51	7.53
temp °F	48.6	50.0	50.5	50.5
Cond. Ms	2.20	1.49	1.48	1.39

1410 took VOA samples off & on site labs

1425 took Metals samples unf & filtered

1430 headed back to office to restock supplies

1500 left office to do LW2 & RF4

1502 LW2 to sample

depth to water 17.91'

Location Gering NEB Date 1-15-02

Project / Client agromac / START

hanna

Reading	#1	#2	#3	#4
ph	7.59	7.63	7.61	7.61
°F temp	42.9	39.7	40.4	40.6
Ms cond	2.50	1.88	1.84	1.81

1515 Metals (unf) & VOAs taken first (offsite & onsite lab VOAs)

1525 fil metals

1540 RF4
depth to water 16.88'

Reading	#1	#2	#3	#4
ph	7.75	7.65	7.62	
°F temp	40.3	41.1	42.4	
Ms Condt	1.71	1.62	1.62	

1552 VOA vitals
offsite & onsite lab

Location Gering NEB Date 1-15-02

Project / Client agromac / START

1600 tuck metal filtered & un

1605 heading to LWS

depth to water 15.40'

Reading	#1	#2	#3	#4
ph	8.2	8.15	8.12	
°F temp	46.5	44.4	45.4	
Ms Cond	1.55	1.52	1.48	

1630 VOA & Metals filtered and unfiltered for onsite & offsite labs

1645 heading back to office

Stephanie Melaski 1-15-02

Location Gering NEB Date 1-16-02

Project / Client Agromac / START

740 left office and headed to sample monitoring wells that were purged 1-15-02

750 Stephanie McCaslin & Rick Claytor started w/ MW M-5
depth to water 9.25'

MWM-5 Hanna

reading	#1	#2	#3	#4
ph	7.19	7.28	7.35	
temp °F	43.3	45.9	46.1	
Cond Ms	1.11	1.08	1.09	

830 Rick took filtered & unfiltered samples of metals for analysis

VOA vials were taken for offsite & onsite lab

Location Gering NEB Date 1-16-02

Project / Client Agromac / START

845 ~~LW~~ SW M-4

depth to water 8.47'

reading	#1	#2	#3
ph	6.97	6.97	6.94
temp	45.0	46.1	46.1
Cond	3.66	3.11	3.13

900 samples were taken for metals unfiltered & filtered
VOA's were taken for offsite & onsite lab

915 arrived at M7

depth to water 8.47'

reading	#1	#2	#3
ph			
°F temp			
Ms cond			

945 Sampled metals & VOAs filtered & nonfiltered for offsite & onsite labs

Location Gering UEB Date 1-16-02

Project / Client Agromac/START

945 headed back towards grid
stopped to talk to xacvators
about ramp for geoprobe
1530- Arrived at SMWB and set up
to sample.
1540- opened sump Lid. Sump contained
black liquid with petroleum
smell & sheen.
1545- Sampled SMWB, Collected Metals
pH, & VOC samples for both
wastewater & sludge.
1615- Left SMWB for office to
pick up supplies.

Location Gering, NE Date 1/21/02

Project / Client Agromac-Lockwood

0700 arrived on site
0800 C. Roberts + E. Scott arrive
in cornfield south of site to
collect offsite background soil
samples OS-S-01 & OS-S-02
0815 to 0830 collected OS-S-01
gave cores to Jeff Hodges to bring
back to office
0900 began to purge OS-GW-01

0813- Clayton will collect Groundwater GW Sample #SA-GGW-1 from the NE corner of the property & GW sample SWD-GGW-3 from the south end of the property

0930- at loc SA-GGW-1 the total depth was 31' water level identified @ 19.2' depth. See Field sheet for sample Analysis. A duplicate sample was also collected.

1005- Move into Galvinizing Bld to collect soil samples.
Collect GBS-1 0-2', 2-6' 6-10' & 10-14' depths
Collect GBS-2 0-2', 2-6' 6-10' & 10-14' depths
Collect GBS-3 0-2', 2-6' 6-10' & 10-14' depths.
Collect GBS-4 0-2' & 2-4' Refusal @ 4' depth

1150- Collect soil sample HWSB-5-9 0-2' & 2-4' depths.

1200 - Lunch Break

1/22/02 Rick Clayton

1430- Collect GW sample GB-GGW-4 total depth 24' depth to water 9.7'

1545- Collect GW @ Location GBGGW-1 depth of well 20' depth to H2O 10.8'

1700- Collect sample GW @ loc GBGGW-2 total depth of well 20', screened @ 16-20' water level 9.0'

Rick Clayton

1/22/02

Loc Gering Ne Date 1/23/02

Project / Client Agromax

0820- Claytor collects Geoprobe GW sample GBGGW-3 inside galvanizing Bld. Total well depth 20', Screened @ 16-18' water level 11.7'

0920- Claytor collects GW sample @ loc. outside (north & east) sample # GBGGW-5 Total depth 20' screened @ 16-20' water level 12.7' BGS

1035- Claytor collects GW sample from loc. S of property SWD GGW-B1 total depth 10' screened 6-10', depth to water 5.6' bgs

*Note: Same loc. as Soil Sample SWD-3

1135- Claytor collects GW sample OSEDSGGW-1 total depth 16', Screened @ 12-16' water level 9.7'

1550 INITIATED PROBE OF SG-6 COLLECTED 0-2 ft

1555 COLLECTED 2-6' AT SG-6

1605 COLLECTED 6-10' AT SG-6

1615 COLLECTED 10-14 AT SG-6

Loca AGROMAX Date 1/23/02

Project / Client

1630 MOVED TO SG 18 INITIATED PROBING SG-18 - CONFORMATION @ BAW

1645 SG-18 CON 0-4' COLLECTED

1652 CORE SG 18 CON 4-8 COLLECTED

1657 CORE SG 18 CON 8-12 COLLECTED

No more soil samples will be collected.

Rob Claytor

1/23/02

Location Gering-NE Date 1/14/02

Project / Client Agromack - Lockwood CR

C. Roberts

0630 C. Roberts + Eric Scott, UOS START Region VIII met with Tetratech group, START Region VII in hotel lobby for health + safety meeting.

0700 mobilized to site, unloaded + set up equipment in unused office building.

1010 mobilized to monitoring well LW-1 to purge well water. Opened well, scanned with PID/FID. Foxpro TVA-1000 # 903250 PID/FID #1 - no headspace reading as taken by E. Scott. lock had to be cut off with bolt cutter

water level indicator model # 51453 serial no. 12695 from Slope Indicator Co. Seattle, Wash EPA tag # 611617

1025 decomed water level indicator

water level = 19.13 ft

43 ft to top of casing = total depth

Location Gering, NE Date 1/14/02

Project / Client Agromack - Lockwood CR

1035 decomed water level indicator after use at LW-1

casing diameter = 2 inches

volume of 2" well = 0.17 gallons per linear foot, therefore

124.0 gallons of water to be purged

1037 began purging well LW-1

1046 finished purging well - 15 gallons

1104 - took photo 1

Photolog on page 4

1115 - Eric Scott was given tour of all monitoring wells by Larry

1140 E. Scott + C. Roberts leave site for lunch

1215 E. Scott + C. Roberts arrive back on site at RF-5

1220 took PHOTO #2 - was able to unlock well with keys provided, no headspace reading with PID/FID

depth to water 19.26 ft.

top of casing = 38.3 ft.

2 inch PVC well - 9.7 needs to be purged

1229 started to purge RF-5

Location Gering, NE Date 1/14/02

Project / Client Agromack - Lockwood

cont. on p. 9

PHOTO LOG - Olympus D-340R CR
Digital Camera

Photo 1 - of LW-1 taken at 1104 by C. Roberts toward east

Photo 2 - RF-5 taken at 1220 by C. Roberts toward west

Photo 3 - of LW-8 taken at 1300 by C. Roberts toward west

Photo 4 - taken at 1302 by C. Roberts toward west of E. Scott taking headspace reading on LW-8

Photo 5 - of E. Scott measuring water level at LW-7 toward west by C. Roberts

Photo 6 - of E. Scott purging well LW-3 by C. Roberts, at 1436 toward west

Photo 7 - of well LW-2 being purged by C. Roberts toward ~~south~~ northwest

Photo 8 - of well LW-2 being purged toward south, by C. Roberts

Photo 9 - of well LW-5 E. Scott dumping purge water into drum toward north, by C. Roberts

Location Gering, NE Date 1/14/02

Project / Client Agromack - Lockwood CR

continued from page 3

1236 ended purging - 10 gallons purged - decomed equipment

1255 - arrived at LW-8

was able to unlock well

1300 - took photo 3

1302 - took photo 4

No headspace reading detected

depth to water = 19.92

depth to bottom = 33.6

2 in casing - 7 gallons need to be purged

1315 began purging LW-8

1321 stopped purging - 10 gallons purged - decontaminated equipment

1336 - arrived at LW-7

able to unlock well - 2 inch diameter casing - no headspace reading on PID/FID

depth to water = 17.59

total depth = 29.6

1340 took photo 5

6 gallons need to be purged

Location Gering, NE Date 1/14/02

Project / Client Agromack-Lockwood CR

1345 began purging - this well appears to recharge more slowly than the others
1347 - well ran dry after 2.5 gallons purged
decontaminated equipment
PID/FID battery died exchanged for TVA-1000 #2 EPA # 903279
1425 arrived at LW-3
PID = 10 ppm FID = 0 ppm
2 inch diameter casing
depth to water = 18.77 ft
total depth = 27.82 20 ft
4.3 gallons needs to be purged
1435 began purging LW-3
1436 took photo 6
1438 finish purging - 5 gallons purged - decontaminated equipment
1445 arrived at LW-2
PID = 9.5 ppm FID - 0.5 ppm
2 inch diameter casing
depth to water = 17.92 ft
total depth = 37.0 ft
9.7 gallons need to be purged

Location Gering, NE Date 1/14/02

Project / Client Agromack-Lockwood CR

1455 - began purging LW-2
1456 - took photo 7
1500 - finished purging - 10 gallons purged - decontaminated equipment
1505 moved to RF-4 right next to LW-2
PID = 0.2 ppm FID = 1.5 ppm
depth to water = 19.20 ft
total depth = 37.7 ft
2 inch diameter casing
9.4 gallons need to be purged
1515 began purging RF-4
1515 took photo 8 RF-4
1520 ended purging - 10 gallons purged - decontaminated equipment
1525 - arrived at LW-5
2 inch casing PID = 0.1 ppm FID = 1.25 ppm
depth to water = 16.78 ft
total depth = 27.1 ft
- nessesary to break off PVC cap to get to casing
5.3 gallons need to be purged
1540 began purging LW-5

Location: Gering, NE Date: 1/14/02

Project / Client: Agromac - Lockwood CR

1543 finished purging LW-5
6 gallons - decontaminated equip.
1544 took photo 9
1550 arrived at LW-4
PID = 0 ppm FID = 0 ppm
water level = 12.90 ft
total depth = 27.70 ft
2 inch casing - 7.5 gal to be purged
1600 began purging LW-4
1601 took photo 10
1604 stopped purging - 9 gallons purged - equipment decontaminated
1611 - arrived at RF-1 and RF-2 right next to each other

	RF-1	RF-2
PID	0 ppm	0 ppm
FID	0 ppm	0 ppm
depth to water	11.24 ft	10.97 ft
total depth	27.4 ft	17.95 ft
casing	2 inch	2 inch
amount to be purged	8.2 gall.	3.6 gall.
amount actually purged	10 gall.	5 gall.

Location: Gering, NE Date: 1/14/02

Project / Client: Agromac - Lockwood CR

PHOTOLOG continued from p 4

PHOTO 10 - taken at 1601 of well LW-4 being purged toward south by C. Roberts
PHOTO 11 - of well RF-1 being purged toward east by C. Roberts
PHOTO 12 - of wells RF-1 and RF-2 while RF-1 was being purged toward east by C. Roberts
PHOTO 13 of well - RF-2 being purged toward east by C. Roberts
PHOTO 14 of well RF-4 being purged toward south by C Roberts

CR 1/14/02

Gering, NE 1/14/02
Agromack-Lockwood CR

1619 began purging well RF-1
1620 took photo 11
1621 took photo 12
1625 stopped purging RF-1
1630 began purging RF-2
1631 took photo 13
1633 stopped purging RF-2
1640 arrived at RF-3
PID = 0 ppm FID = 0 ppm
water level = 11.62 ft
total depth = 27.4 ft
8.0 gallons to be purged
1647 began purging RF-3
1648 took photo 14
1655 finished purging RF-3
10 gallons purged - decontaminated equipment
1700 returned to office to restock, and organize equipment
1730 left the site

CR 1/14/02

Gering, NE 1/15/02
Agromack-Lockwood CR
C. Roberts

0700 - arrived on site, loaded equip.
0815 - arrived at well MW-M7
E. Scott + C. Roberts present conducting ~~[illegible]~~ purging in Level D PPE - weather is overcast, 25°F with light wind
- M7 is a 4 inch well, using Yamaha generator with Grunfos pump EPA # ST0247
generator # 611579
PID/FID # 2 EPA # 903249
water level indicator # 611617
PID = 0 ppm FID = 0 ppm
water level = 9.65 ft
total depth = 28.8 ft
38 gallons need to be purged
0928 began purging M7
0936 stopped purging M7
approx. 50 gallons purged
decontaminated equipment
0950 arrived at M5
PID = 0 ppm FID = 0 ppm
water level = 10.15 ft, 4 inch well
total depth = 26.8 ft

Location Gering, NE Date 1/15/02

Project / Client Agromac-Lockwood CR

33 gallons need to be purged
1015 Began purging M-5
1016 took photo 15
1022 Stopped purging M-5
45 gallons purged-equip. deconed.
drum at well that contained
purge water had hole in bottom
all purge water leaked onto ground
1028 arrived at MI-1
6 inch well PID = 0ppm FID = 0ppm
water level = 8.22 ft, total depth =
24 ft, 71 gallons need to be purged
1035 began purging MI-1
1038 took photo 16
1053 stopped purging MI-1
approx. 80 gallons purged - decontaminated
equipment
1100 arrived at well M-1
4 inch well, PID 0ppm FID = 0ppm
water level = 9.33 ft
total depth = 25 ft
31 gallons need to be purged
~~Started purging M-1~~ CR
~~took photo 17~~ CR

Location Gering, NE Date 1/15/02

Project / Client Agromac-Lockwood CR

PHOTOLOG - continued from p. 9

PHOTO 15 - of well M-5 being
purged toward Northwest by
C. Roberts at 1016
PHOTO 16 of well MI-1 being
purged toward west by C. Roberts
at 1038
~~PHOTO 17 of well M-1 being~~ CR
~~purged toward by~~ CR
~~C. Roberts at~~ CR

CR
1/15/02

Location: Gering, NE Date: 1/15/02

Project / Client: Agromac - Lockwood

CR

1104 discovered that m-1 had already been purged returned to office
1130 left site for lunch
1230 arrived back on site gathered equipment to sample monitoring wells
1345 arrived at well LW-2 calibrated pH meter # STQ 542 data on Sample Collection Field Sheet did not sample LW-2 due to equipment failure - returned to office to resupply
1600 arrived at well LW-3 collected sample 1635 - see sample collection field sheet for water quality data
1650 arrived at well LW-4 collected sample at 1710 - see sample collection field sheet for water quality data
1730 - returned to office
1830 - left site

CR 1-15-02

Location: Gering, NE Date: 1/16/02

Project / Client: Agromac - Lockwood

CR

0700 arrived on site gathered equipment to GPS
0745 left office to begin gathering GPS data of buildings and sample locations around site.
1140 - left site for lunch
1240 - returned to site prepared to sample cores
1415 received sample OSEDS-A1 ~~0-2~~ CR
core collected at 13:45
1440 received samples OSEDS-A3 OSEDS-A2 and OSEDS-A4
A3 core collected at 1425
A2 core collected at 1410
A4 core collected at 1430
A5 core collected at 1441
- soil in A5 was very clayey and moist
A6 core collected at 1450
A6 very clayey from 2-4 feet
A7 was collected at 1458
A7 was very clayey at 2-4 ft

Location: Gering, NE Date 1/16/02

Project / Client Agromac-Lockwood CR

A8 was collected by Geoprobe at 1503
A8 was clayey from 2-4 feet
A9 core collected at 1507
A9 was clayey from 2-4 ft
A10 core collected at 1516
A10 was clayey from 2-4 ft
A11 core was collected at 1525
A11 was clayey from 2-4 ft
A12 core was collected at 1530
A12 was clayey from 2-4 ft
A13 core was collected at 1538
A13 was clayey from 2-4 ft
A14 core was collected at 1545
A14 was clayey from 2-4 ft
A15 core was collected at 1550
B15 core was collected at 1558 CR
B14 core was collected at ~~1625~~ 1605
B13 core was collected at 1625
B14 was clayey from 2-4 ft
B13 was clayey from 2-4 ft
B12 was collected by Geoprobe at 1618
B12 was clayey from 2-4 ft
B13 core was collected at 1610
B13 was clayey from 2-4 ft

Location: Gering, NE Date 1/16/02

Project / Client Agromac-Lockwood CR

B10 core was collected at 1637
B10 was clayey from 2-4 ft
B9 was collected by Geoprobe at 1648
B9 was clayey from 2-4 ft
B8 was collected by Geoprobe at 1653
B7 was collected by Geoprobe at 1700
B7 was clayey at 2-4 ft
B6 core was collected at 1707
~~B6 was clayey at 2-4 ft~~ CR
B5 core was collected at 1711
B5 was clayey from 2-4 ft
B4 core was collected at 1720
B4 was clayey from 2-4 ft
1940 began cleaning up
2000 - E. Scott + C. Roberts left site

CR 1/16/02

Location Gering, NE Date 1/17/02

Project / Client Agromac-Locwood

Crystal Kirkpatrick CR

0700 arrived on site - processed samples that were layed out to dry the night before

0845 began receiving cores from todays Geoprobe holes

OSEDS-S-B1-0/2 core was collected at 0846 - All other data for all samples is recorded on sample collection field sheets. So far, no samples from yesterday (1/16/02) have been analysed for VOC.

B2 core collected at 0836

B3 core collected at 0826

C1 core collected at 0854

C2 core collected at 0900

C3 core collected at 0907

C4 core collected at 0913

C5 core collected at 0922

C6 core collected at 0928

C7 core collected at 0936

C8 core collected at 0943

C9 core collected at 0950

C10 core collected at 0957

CR

Location Gering, NE Date 1/17/02

Project / Client Agromac-Locwood

CR

C11 core collected at 1004

C12 core collected at 1015

C13 core collected at 1021

C14 core collected at 1028

C15 core collected at 1037

1215 left site for lunch

1315 arrived back on site

All depths on sample collection sheets are recorded in feet.

All PID readings on sample collection sheets are recorded in parts per million (ppm).

SWD-S-1-0/2

core collected at 1540

PID readings from 2.5 to 4 feet range from 6.3 ppm to 6.9 ppm took VOC sample from this range.

S-2 core collected at 1547

2-4 feet from S-1 is very clayey so was set on plate to dry

S-3 core collected at 1610

S-4 6 CR collected at 1612

S-7 collected at 1614

Lo[illegible] Gering, NE Date 1/17/02

Project / Client Agromac - Locwood

CR

S8 collected at 1625
S3 was very wet, so put on metal pie plans to dry
S4 collected at 1638
S5 collected at 1645
1730 left site

CR 1/17/02

[illegible]on AGROMAC Date 1/19/02

Project / Client

BAW
BEN WOLFE
SOUTH

1310	230058 LANPHIER FARM DR. OFF OF CROWRD TURNED ON HYDRANT 30 YARDS WEST OF WELL HEAD. MOBILE HOME, HOUSE & CATTLE WATER SERVICED BY WELL RALPH LANPHIER OWNS PROPERTY FOR APPROX. 30 YEARS.
1315	CALIBRATED pH, TEMP, CONDUCTIVITY METER
1330	SAMPLED WELL LABLED SAMPLE OS-PW-1 SEE FIELD SHEET SAMPLED FOR VOC, TOTAL METALS, & DISOLVED METALS FIELD DUPLICATE SAMPLED FROM OS-PW-1 LABLED OS-PW-1-FD WTR GPS CORDINATES OF SITE
1350	LEFT SITE
1535	ARRIVED @ RICHARD D. BAUER RESIDENTS LOCATED @ 130800 CR #24 GAVE PERMISSION TO SAMPLE PRIVATE WELL ON PROPERTY WELL SERVICES THE HOME ON PROPERTY
1540	TURNED ON HYDRANT HYDRANT LOCATED ON SIDE OF HOUSE 10 FT. SOUTH OF FRONT DOOR

Location: AGROMAC Date: 1/19/02

Project / Client: BRW

BRW WOLFE

SEE FIELD SHEET FOR PH, TEMP & CONDUCTIVITY READINGS

1350 SAMPLED WATER. LABELED SAMPLE CS-PW-2

COLLECTED MSD FROM SAMPLE CS-PW-2

SAMPLES SUBMITTED FOR VOC, TOTAL METALS & DISSOLVED METALS. TOOK GPS READING OF SITE LOCATION. TALKED WITH RESIDENCE TO EXPLAIN MORE ABOUT SAMPLING PROCEDURE.

1620 LEFT SITE

BRW 1/19/02

Location: AGROMAC Date: 1/20/02

Project / Client: BRW

BRW WOLFE

0900 ARRIVE AT AGROMAC SITE. SET UP SAMPLING PLAN FOR TODAY.

0945 SCOTT BRINGS CORE SI-1 0-14 FT.

SI 1 0-2 COLLECTED @ 910 100% REC

SI 1 2-6 COLLECTED @ 915 85% REC

SI 1 6-10 COLLECTED @ 922 90% REC

SI 1 10-14 COLLECTED @ 932 100% REC

SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION.

1020 SCOTT BRINGS CORES SI-2 0-14 FT.

SI 2 0-2 COLLECTED @ 0944 100% REC

SI 2 2-6 COLLECTED @ 0949 85% REC.

SI 2 6-10 COLLECTED @ 1000 85% REC.

SI 2 10-14 COLLECTED @ 1010 100% REC.

SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1100 SCOTT BRINGS CORES SI-3 0-14 FT

SI 3 0-2 COLLECTED @ 1035 100% REC

SI 3 2-6 COLLECTED @ 1040 85% REC

SI 3 6-10 COLLECTED @ 1045 85% REC

SI 3 10-14 COLLECTED @ 1055 100% REC

SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1130 SCOTT BRINGS CORE SI-4 0-14 FT

Location Agromac Date 1/20/02

Project / Client CR

Crystal Kran

SI-4 0-2 COLLECTED @ 1102 100% REC
SI-4 2-6 COLLECTED @ 1107 75% REC
SI 4 6-10 COLLECTED @ 1116 100% REC
SI 4 10-14 COLLECTED @ 1125 100% REC
SEE FIELD SHEET FOR PID READINGS
& SAMPLE COLLECTION

1230 Left for lunch CR
1330 arrived back from lunch
Sieved remaining dry samples
left over from previous day
1437 SI-5 arrived in office
SI-5 0-2 collected @ 1404 60% rec.
SI5 2-6 collected @ 1408 80% rec.
SI5 6-10 collected @ 1419 85% rec
SI5 10-14 collected @ 1424 70% rec.
See field sheets for PID readings
and sample collection data
1500 Wolf brought sample SI-6
SI-6 0-2 collected @ 1420 60% rec.
SI6 2-6 collected @ 1435 70% rec
SI6 6-10 collected @ 1444 90% rec.
SI6-10-14 collected @ 1453 60% rec
See field sheets for PID readings
and sample collection data

CR

Location AGROMAC Date 1/20/02

Project / Client BAN

BEN WOLFE

1712 COLLECTED RINSATE SAMPLE FROM
BOTTOM OF SIEVE PAN. SAMPLE
LABLED ~~RISATE~~ BAN RINSATE-S5
SUBMITTED FOR DISOLVED METALS.
1715 ELLIOT & SCOTT COLLECT RINSATE SAMPLE
FROM MACROCORE TUBE. SAMPLE
LABLED RINSATE-S6 SUBMITTED FOR
DISOLVED METALS & VOCs & TOTAL METALS
1800 LEFT SITE

BAN 1/20/02

Location AGROMAC Date 1/21/02

Project / Client BAW

VERY WINDY BEN WOLFE

0800 INITIATED GEOPROBE OF GROUND WATER GEO-4. PUSHED 13 FT SCREENED BETWEEN 10-13 FT.

0825 SET UP PARASALTIC PUMP

0835 COLLECTED GROUNDWATER SAMPLE FROM GEO 4 SAMPLE SUBMITTED FOR VOCs, TOTAL METALS & DISSOLVED METALS.

0845 BACKFILLED HOLE WITH BENTONITE GRANULAR. MOVED TO GEO-3

0850 INITIATED GEOPROBE ~~FT~~ OF GEO-3 PUSHED 15 FT SCREENED BETWEEN 12-15 FT

0905 COLLECTED GROUNDWATER SAMPLE FROM GEO 3. COLLECTED FIELD DUPLICATES FROM GEO 3. SAMPLES SUBMITTED FOR VOCs TOTAL METALS & DISSOLVED METALS.

0915 BACKFILLED HOLE WITH GRANULAR BENTONITE

0955 Began GeoProbing at SI-GGW-2

~~[illegible]~~

Pushed to 15 feet pulled back to 12 feet Screened interval 12-15 feet.

1030 Collected SI-GGW-2, SI-GGW-2-MS and SI-GGW-2-MSD.

1040 Filled Geoprobe hole with bentonite.

Location Agromac Date 1/21/02

Project / Client

Sunny 55°F Windy Hot

1055 Initiate GeoProbe of Groundwater SI-GGW-1. Pushed to 15 feet Screened between 12-15 feet

1110 - Collected Sample ~~of~~ SI-GGW-1 Submitted for VOC's, Total Metals + Dissolved metals

1130 - Filled Geoprobe hole with Bentonite

1337 - Began collecting photo at Municipal well #6

#25 - well purging

#26 - "

#27 - Trisha checking water quality

#28 - "

#29 - Trisha Sampling

1359 - Began collecting photos at galvanizing building

#30 - bricks & zinc that leaked into cracks of brick

#31 - Zinc pit

#32 - Metal Finishing pits

#33 - Zinc pit & metal finish pits

#34 - Hole in South end of zinc pit (continued)

#35 - metal finishing pit
#36 - Concrete covered hole in Eastern pit
#37 - Sludge in Eastern pit
#38 - Sludge in middle pit
#39 - Dead beaver in west pit
#40 - Sludge in west pit
#41 - Beta acid crystals
1422 - Began collecting photos of soil & groundwater at background geoprobe locations
#42 - geoprobe soil & groundwater samples
#43 - "
#44 - "
#45 - geoprobe collecting soil samples
#46 - geoprobe water samples
#47 - "
1650 Stopped at Irrigation Specialists Inc. to the North of the site. They are on city water and do not have a domestic well.
1653 Went to Murphy Tractor & Equipment Co.

cont'd - Spoke to Max Miller, the owner & manager & Murphy, who says they own the white building on the corner beside them as well as their own building. They have a private well that supplies both buildings.
- He asked us to come back tomorrow morning at 0700 and we can take a sample then.
- He says they have records from EPA saying their well is clean.

Max Miller
220810 Hwy 92
P.O. Box 460
Gering, NE 69341
Bus: 308-436-2177
Fax: 308-436-7645
Mobile: 308-631-1222
Home: 308-635-1244
Toll Free: 800-205-4784

Location Agromac Date 01/21/02

Project / Client

Adam Elliott

1700 – 1845

Collected Soil Gas Samples:

- SG-1 at 16 feet BGS
- SG-5 at 16 feet BGS
- SG-10 at 12 feet BGS
- SG-11 at 12 feet BGS
- SG-12 at 12 feet BGS
- SG-2 at 6 feet BGS

1900 Stoped work for the night.

AE 01/21/02

Location Agromac Date 01/22/02

Project / Client

Adam Elliott

8:00 – Filled EPA Geoprobe with sampling supplies. Checked on Maps to verify sampling locations.

8:10 Began Re Sampling SG-2

9:10 Collected Soil Gas Sample SG-2 at 8 ft BGS

9:20 Back filled Geoprobe hole with Bentonite.

9:25 Began Probing at SG-3.

9:30 Collected SG-3 at 7 feet BGS

9:35 Back filled Geoprobe hole with Bentonite

9:37 Began Probing on SG-4.

9:38 Collected SG-4 at 7 feet BGS

9:45 Back filled Hole with Bentonite.

9:49 Began Probing at SG-8

9:55 Collected SG-8 at 7 feet BGS

10:01 Back filled GeoProbe hole with Bentonite

10:04 Began Probing at SG-9

10:10 Collected SG-9 at 7 feet BGS

10:15 Back filled Geoprobe hole with Bentonite

10:30 Collected SG-7 at 7 feet BGS

10:36 Back Filled Geoprobe Hole with Bentonite.

10:36 Began Probing at SG-6

10:45 Collected SG-6 at 7 feet BGS

10:53 Back Filled Geoprobe hole with Bentonite.

Location Agromac Date 01/22/02

Project / Client

Adam Elliott

1100	Began Probing on SG-13.
1110	Collected sample SG-13 at 6 feet BGS
1115	Backfilled Geoprobe Hole with Bentonite.
1118	Began Collecting SG-21
1125	Collected SG-21 at 6 feet BGS
1130	Backfilled Geoprobe hole with Bentonite
1140	Began Probing on SG-26
1145	Collected SG-26 at 6 feet BGS
1150	Backfilled Geoprobe hole with Bentonite.
1200	Stoped for lunch.
1255	Purchased 10 bags of Bentonite
1300	Paid Electrical Parts Bill at Snell Service
1350	Began Probing at SG-14
1410	Collected Sample SG-14 at 12 feet BGS
1415	Back filled GeoProbe hole with Bentonite
1420	Began Probing at SG-15.
1425	Collected sample at SG-15 at 12 feet BGS
1435	Backfilled Geoprobe hole with Bentonite
1445	Began Probing at SG-16.
1525	COLLECTED SAMPLE SG-18 AT 12 FT. BGS
	COLLECTED SG-18 MS & SG-18 MSD FROM SG-18
1530	BACKFILLED GEOPROBE HOLE W/ GRANULAR BENTONITE
1535	BEGAN PROBING AT SG-22

Location Gering, NE Date 01/22/02

Project / Client Agromac-Lockwood

Adam Elliott

1545	COLLECTED SAMPLE SG-22 AT 12 FT BGS
	COLLECTED SAMPLE SG-22 FD FROM SG-22
1550	BACKFILLED GEOPROBE HOLE W/ GRANULAR BENTONITE
1555	BEGAN PROBING @ SG-17
1605	Collected Sample SG-17 at 12 feet BGS
1615	Backfilled Geoprobe hole with Bentonite
1620	Began Probing at SG-27
	Collected Sample SG-27 at 12 feet BGS
1630	Backfilled Geoprobe hole with Bentonite.
1700	Returned to office. Checked field sheets.
	Decon gas sampling bulbs.

E 01/22/02

Location Agromac Date 01/23/02

Project / Client

Adam [illegible]

0755	Began Probing at SG-19.
0810	Collected Sample SG-19 at 12 feet BGS
	Collected Sample SG-19-FD at 12 feet BGS.
0820	Back Filled Geoprobe hole with Bentonite.
0825	Began Probing at SG-23.
0835	Collected Sample SG-23 at 10 feet BGS
0855	Back filled Geoprobe hole with Bentonite
0900	Began Probing at SG-24.
0905	Collected Sample SG-24 at 9 feet BGS
0910	Back filled Geoprobe hole with Bentonite
0915	Began probing on SG-25.
0925	Collected Sample SG-25 at 6 feet BGS
0935	Back filled Geoprobe hole with Bentonite
0945	Began Probing at SG-20
0950	Collected sample SG-20 at 6 feet BGS
0955	Back Filled Geoprobe hole with Bentonite.
1005	Began Probing at SG-29.
1015	Collected Sample SG-29 at 3 feet BGS
1017	Back filled Geoprobe hole with Bentonite
1020	Began Probing at SG-26.
1030	Collected Sample SG-26 at 3 feet BGS
1040	Back filled hole with Bentonite.
1055	Began Probing at SG-31.

Location Agromac Date 1/23/02

Project / Client

Adam [illegible]

1105	Collected sample SG-31 at 3 feet BGS
	Collected Sample SG-31-FD 3 feet BGS
1115	Back Filled Geoprobe Hole with Bentonite
1130	Began Probing at SG-30
1140	Collected Sample SG-30 at 3 feet BGS
1150	Back filled Geoprobe hole with Bentonite
1200	Returned to Office.
1220	Break for Lunch
1425	Began Probing for soil core confirmation Sample at SG-5
	SG5 on core 0-4 ft collected @ 1435
	SG5 on core 4-8 ft collected @ 1440
	SG5 on core 8-12 ft collected @ 1445
	SG5 on core rebit collected @ 1453
1457	Back filled Geoprobe hole with Bentonite
1500	Began Probing at SG12 for confirmation soil samples.
1507	Sample soil at SG-12-0/4
	Sample soil at SG-12-4/8
	Sample soil at SG-12-8/12
1530	Back filled hole with Bentonite.

01/23/01

Location Gering, Nebraska Date ~~1/14/02~~ 1/13/02

Project / Client Agromac

G9011.C.01.0008.10 T. Susha R. Dealy

0630 CST Left office in Kansas (Lenexa).

1930 MST Arrived at Microtel in Gering, NE.

1/13/02

Location Gering, NE Date 1/14/02

Project / Client Agromac

T. Susha R. Dealy

0700 Health and Safety meeting at hotel.

0730 Arrived at site.

- Unloaded trucks into office space.
- Started lining up power for mobile lab with Harry and Chester.
- Began sorting, organizing, and setting up office space.
- Utility locates (people) started arriving.
- Began laying out grids.
- Set up Decontamination area in former Galvanizing Building, in "office".

1200 Break for lunch.

1230 Resumed working after lunch.

- URS people began purging wells.
- Dealy and Elliott placed drums at remaining wells and opened casing for access to wells.

1535 Arrived at well MI-2, which is a six-inch well.

Location Gering, NE Date 1/14/02

Project / Client Agromac

Sasha R. Healy

1535 cont'd (Well MI-2)
- Static water level = 8.63 ft.) from top
- Total depth = 27.21 ft.) of casing
- Well casing = 6 inch diameter
- ~~Purge calculation: (WRONG)~~
  ~~27.21 - 8.63 = 18.58 ft.~~
  ~~18.58 * 1.47 = 27.31 * 3 = 81.93 gal.~~

1/14/02

1555 - Began purging well using Geotech GeoSquirt™ Pump and disposable tubing

(*) - Corrected purge calculation
27.21 - 8.63 = 18.58 ft.
18.58 * 1.47 = 27.31 * 3 = ~~81.93~~ 82 gal.

1/14/02

1730 Finished purging well MI-2.

1750 Prepared to leave site and Returned to hotel.

1/14/02

Location Gering, NE Date 1/15/02

Project / Client Agromac

G9011.L.01.0008.10 Sasha R. Healy

0700 Mobilized to site.
- Organized into teams.
- Prepared for sampling and Decon.

0815 The three well purging teams mobilized to wells.

0835 Arrived at well M-6. (4" well.)
- Static water level = 9.21 ft.) from top
- Total depth = 29.71 ft.) of casing
- Well casing = 4 inch diameter
- Purge calculation:
  29.71 - 9.21 = 20.50
  20.50 * 0.65 = 13.325 * 3 = 39.98 gal.

0845 Began purging well using Geotech GeoSquirt™ Pump and disposable tubing.

0905 Finished purging well M-6.
- Deconned pump.

0915 Arrived at well M-8. (4" well)
- Static water level: ~~9.35 ft.~~ 9.86 ft.) from top of casing
- Total depth = 29.61 ft.
- Well casing = 4 inch diameter
- Purge calculation: 29.61 - 9.86 = 19.75 ft.
  19.75 * 0.65 = 12.8375 * 3 = 38.5 gal.

1/15/02

0925 Began purging well using Geotech pump and disposable tubing.

Location: Gering, NE Date: 1/15/02

Project / Client: Agromac

P. Sisha R. Healy

0950 Finished purging well M-8. (4" well)
- Deconned pump.

1010 Arrived at well M-3 (4" well)
- Static water level = 9.65 ft. (from Top of Casing)
- Total depth = 28.55 ft
- Well Casing = 4 inch diameter
- Purge Calculation: 28.55 - 9.65 = 18.90 ft.
  18.90 * 0.65 = 12.3 * 3 = 36.9 gal.

1020 Began purging well using Geotech Geosquirt™ pump and disposable tubing.

1035 Finished purging well M-3.
- Deconned pump.

1130 Broke for lunch.

1200 Returned from lunch.
- Prepared to purge last well and
- Prepared for sampling activities.

1230 Arrived at well LW-6 (6" well).
- After assessing the "situation"* and discussing the options, we decided to return to the office and talk to the on-scene project manager about it later.

*(The "situation" is that the well is

Location: Gering, NE Date: 1/15/02

Project / Client: Agromac

P. Sisha R. Healy

down in an area about 6 feet in diameter and about ~~20~~ 10 feet deep. At the bottom, there are 2 pumps with a 2" and 1" pump going into the 6" well casing. It will be difficult to place a pump in the 6" inch well casing, and the well depth is potentially to much for the pump to reach.)

1240 Returned to office.
- Further discussed purging and sampling. Loaded two more teams for sampling activities.

1340 Arrived back at well LW-6 (6" well).
- Static water level = 17.78 ft. (From top of wellhead pump housing.)
- Total depth = 48.32 ft.
- Well casing = 6 inch diameter
- Top of well casing is 9.08 ft below top of wellhead pump housing.
- Purge calculation: 48.32 - 17.78 = 30.54 ft.
  30.54 * 1.47 = 44.9 * 3 = 134.7 gal.

1420 Began purging well LW-6 using Geotech Geosquirt™ Purge Pump and disposable tubing.

Location Gering NE Date 1/15/02

Project / Client Agromac

Susan R. Healy

1600 Finished purging well L-W-6
- Prepared to collect samples.

1615 Began collecting water readings using a Hanna HI-991301

	pH	Temp (°F)	Cond (mS)
1616	7.26	48°	2.87
1618	7.25	52.5	1.57
1619	7.24	53.2	1.55
1620	7.27	51.5	1.49

1624 Collected sample
MW LW-6
(3 VOA's and 1 Plastic and 1 Plastic filtered for off-site analysis and 2 VOA's for on-site analysis)

1640 Went back to office.
- Packed samples for shipment.

1845 Went back to hotel.

1/15/02

Location Gering NE Date 1/16/02

Project / Client Agromac

G9011.L.01.0008.10 Susan R. Healy

0700 Mobilized to site.
- Prepared for sampling. Determined today's activities and organized into sampling teams.
- Prepared Decon area.

0755 Arrived at well M-3.
- Calibrated Hanna water meter HI 991301
- Used peristaltic pump to pump water out of well.
- Static water level = 6.73 ft. from top of casing

Time	pH	temp (°F)	cond (mS)
0826	7.30	45.7	1.33
0829	7.35	46.8	1.11
0830	7.37	46.2	1.11
0831	7.38	47.9	1.08

0834 Began collecting sample
MW M-3

0845 Moved to well M-8.
- Static water level = 6.60 ft. from top of casing
- Used peristaltic pump to pump water from well.
- Began collecting water readings using Hanna HI-991301

Location Gering, NE Date 1/16/02

Project / Client Agromac

Susha K Healy

Time	pH	temp (°F)	cond (mS)
0856	7.42	49.6	1.22
0857	7.42	50.2	1.12
0858	7.40	50.4	1.12

0900 Began collecting sample MW M-8

0906 Finished collecting sample.

0925 Arrived at well M-6.
- Static water level = 6.26 ft. from top of casing
- Used peristaltic pump to pump water from well.

0935 Began collecting water readings using the Hanna HI 991301

Time	pH	temp (°F)	cond (mS)
0936	7.35	46.5	1.15
0937	7.35	48.2	1.07
0938	7.31	49.1	1.08
0940	7.32	49.1	1.06

0943 Began collecting sample MW M-6

0947 Finished collecting sample

0955 Returned to office.
- Prepared samples for shipment.
- Prepared to take soil samples.

Location Gering, NE Date 1/16/02

Project / Client Agromac

Susha K Healy

(0955) - Set up sampling area (in office)
- Moved Lecon area to office space.

11 30 Broke for lunch.

12 30 Returned from lunch.
- Prepared for sample collection. Broke into teams.
- Bought Bentonite to fill GeoProbe holes.

14 45 Turned on Niton 700 Series XRF spectrum analyzer multi-element (Niton XRF)
- Calibrated Niton XRF

14 58 Screened the Niton High Standard - using Cd-109 Source

Fe	36.7K
Mn	9720
Zn	7170
Pb	5590
Cu	2460
As	685.0
Sr	279.0
Rb	174.0
Zr	73.2

1/16/02

* Note: Niton was turned on around 1355 to warm up, then turned off so it would recalibrate at 1445.

Location Gering, NE Date 1/16/02

Project / Client Agromac

TD Susha R. Dealy

1506 Screened the Niton High Standard using the Am-241 source Ba 615.0

- Screened the Niton Blank using the Cd-109 source Sr 108.0

- Screened the Niton Blank using the Am-241 source

*All below detection limits

1550 Screened the Niton High Standard and the Niton Blank (recorded as Standard 2 and Blank 2)

1640 Screened the Niton High Standard and the Niton Blank (recorded as Standard 3 and Blank 3)

1737 Screened the Niton Blank and the Niton High Standard (recorded as Blank 4 and Standard 4)

1744 - Collected 2 xphotos of Core screening facing NE & NW

Location Gering, NE Date 1/16/02

Project / Client Agromac

TD Susha R. Dealy

1746 - collected photo of XRF screening & data recording facing N & E, respectively

1834 Screened the Niton Blank and the Niton High Standard (recorded as Blank 5 and Standard 5)

1932 Screened the Niton Blank and the Niton High Standard (recorded as Blank 6 and Standard 6)

1945 Cleaned up and organized to leave for the night.

2000 Left the site.

1/16/02

Location Gering, NE Date 1/17/02

Project / Client Agromac

G9011.L.01.0008.10 D Susha R. Dealy

1	0700	Mobilized to site.
		- Prepared for sampling activities.
		- Set up sampling and decon areas.
		- Began warming up instruments (and office space).
	0740	Turned on Niton XRF to warm-up for use.
1	0810	Re-Calibrated Niton XRF
	0816	Screened the Niton Blank and the Niton Medium Standard (recorded as Blank 7 and Standard 7)
1		* Note: There were 7 ~~or 8~~ ~~D 1/17/02~~ samples yesterday that were wet clay and could not be sieved. We let them dry overnight and sieved them, so we are
1		screening these samples again. (They are all OSEDS soil samples from section A, 2-4 ft bgs.) (A5-A11)
	0915	Screened the Niton Blank and
1		the Niton Medium Standard (recorded as Blank 8 and Standard 8)

Location Gering, NE Date 1/17/02

Project / Client Agromac

D Susha R Dealy

10	12	Screened the Niton Blank and the Niton Low Standard (recorded as Blank 9 and Standard 9)
11	06	Screened the Niton Blank and the Niton Low Standard (recorded as Blank 10 and Standard 10)
11	30	Began process to erase data.
		- Erased stored data (in Niton)
11	40	Calibrated the Niton XRF
11	45	Screened the Niton Blank and the Niton Low Standard (recorded as Blank 11 and Standard 11)
12	30	Broke for lunch.
13	25	Returned from lunch.
13	32	Screened the Niton Blank and the Niton Low Standard (recorded as Blank 12 and Standard 12)
14	06	Changed battery on Niton XRF.
14	10	Calibrated Niton XRF.
14	16	Screened the Niton Blank and

Location [redacted]ering, NE Date 1/17/02

Project / Client Agromac

D Sinha R Realy

1416 cont'd the Niton Low Standard (Recorded as Blank 13 and Standard 13)

1515 Screened the Niton Blank and the Niton Low Standard (Recorded as Blank 14 and Standard 14)

1610 Screened the Niton Blank and the Niton Low Standard (Recorded as Blank 15 and Standard 15)

1710 Screened the Niton Blank and the Niton Low Standard (Recorded as Blank 16 and Standard 16)

1735 Began packing stuff to leave for the night.

1750 Left site.

D 1/17/02

Loca[redacted] Gering, NE Date 1/18/02

Project / Client Agromac

G1011.L.01.0008.10 D Sinha R Realy

0725 Turned on Niton XRF to warm-up.

0750 Calibrated Niton XRF

0755 Screened the Niton Blank and the Niton Low Standard (Recorded as Blank 17 and Standard 17)

0850 Screened the Niton Blank and the Niton Medium Standard (Recorded as Blank 18 and Standard 18)

0945 Screened the Niton Blank and the Niton Medium Standard (Recorded as Blank 19 and Standard 19)

1046 Screened the Niton Blank and the Niton Medium Standard (Recorded as Blank 20 and Standard 20)

1144 Screened the Niton Blank and the Niton Medium Standard (Recorded as Blank 21 and Standard 21)

1200 Broke for lunch.

1300 Returned from lunch.

1314 Screened the Niton Blank and the Niton Medium Standard (Recorded as Blank 22 and Standard 22)

D 1/18/02

Location Gering, NE Date 1/18/02

Project Client Agromac

T. Sisha R. Dealy

1419 Screened the Niton Blank and the Niton Medium Standard (Recorded as Blank 23 and Standard 23)

1455 Screened a brick from the Zinc pit in the Galvanizing building: (Cd source)

Element	ppm
Zn	2330 K
Ni	48.4 K
Pb	21.5 K
Fe	17.6 K
Cr	10.7 K
Hg	5310

1520 Screened the Niton Blank and the Niton Medium Standard (Recorded as Blank 24 and Standard 24)

1620 Screened the Niton Blank and the Niton Medium Standard (Recorded as Blank 25 and Standard 25)

1717 Screened the Niton Blank and the Niton Standard (Medium)

Location Gering, NE Date 1/18/02

Project Client Agromac

T. Sisha R. Dealy

1717 (cont'd) (Recorded as Blank 26 and Standard 26)

1830 Left the site.

1/18/02

Location Gering, NE Date 1/19/02

Project / Client Agromac

V Lisha R Dealy

0700	Left for site
0723	Turned on Niton XRF to warm up.
0749	Reset Niton XRF
0750	Calibrated Niton XRF
0755	Screened the Niton Blank and the Niton Medium Standard (Recorded as Blank 27 and Standard 27)
0907	Screened the Niton Blank and Niton Med. Std. as Blank #28 and Std. #28.
0955	Screened the Niton Blank and Niton Med. Std. as Blank #29 and Std. #29.
1058	Screend the Niton Blank & Niton Std. (Med) as Blank #30 and Std. #30.
1205	Left for Lunch
1305	Return from Lunch
1310	Changed batteries in Niton unit and screened blank and med std. as #31 set.
1430	Screened Niton Blank and Med Std. as set #32.
1510	Caught up on XRF Screening, so will sieve more samples. Rest of

Location Gering, NE Date 1/19/02

Project / Client Agromac - Lockwood

Sharon P. Martin

	crew is sampling drinking waterwells on sludge & wastewater.
1715	Finished for the day and leaving site shortly.

Sharon P. Martin
1/19/02

1/19/02

0750 Arrived onsite and decanned sieves used yesterday.
0840 Calibrating Niton XRF unit and warming up.
0905 Reset Niton and recalibrating to begin use. Will first run Niton Blank and Med. Std as set #33.
1015 Screened Niton Blank and Med. Std. as set #34.
1110 Screened Niton Blank and Med Std. as set #35.
1225 Screened Niton Blank and Med Std as set #36. - No - Left for Lunch instead.
1330 Return from lunch. Jeff Hodge and Sharon Martin sampled wastewater and sludge samples until end of day. First attempted wastewater sample of septic tank, but only sludge was sampled, due to lack of water - ST-SLU = sample #.
1500 Sampled sump at HWSC first for wastewater and then for sludge. HWSC-WW = wastewater

sample. HWSC-~~SLU~~ WW, HWSC-~~SLU~~ WW-FD, HWSC-~~SLU~~ WW MS, and HWSC-~~SLU~~ WW MSD were collected from wastewater. One sample of sludge was collected - HWSC-SLU with retained small amount of sample - difficult to get sludge out. A sludge judge was used to collect all sludge samples and a peristaltic pump was used to collect wastewater samples.
1700 Collected sample of crystals on outside of Beta acid crystal bags as BAC-SLU. Will probably want to sample content of one in more bags tomorrow.
1730 Group meeting to discuss plans for rest of site work.

Sharon P. Martin

SPM

Lo[illegible] AGROMAC Date 1/21/02

Project / Client BAW

BEN WOLFE

1000 RECEIVED CORE OS-S-01 0-14 FT
FROM SCOTT.
CORE OS-1 0-2 COLLECTED @ 0815 100% REC
OS-1 2-6 FT COLLECTED @ 0820 85% REC
OS-1 6-10 COLLECTED @ 0825 45% REC
OS-1 10-14 COLLECTED @ 0830 90% REC
SEE FIELD SHEET FOR PID READINGS &
SAMPLE COLLECTION.

1130 SCOTT BRINGS CORE OS-S-02 0-14 FT
OS-2 0-2 COLLECTED @ 0930 100% REC
OS-2 2-6 COLLECTED @ 0935 65% REC
OS-2 6-10 COLLECTED @ 0940 65% REC
OS-2 10-14 COLLECTED @ 0950 90% REC
SEE FIELD SHEET FOR PID READINGS &
SAMPLE COLLECTION

1350 MARTIN BRINGS CORE OS-3 0-14 FT.
OS-3 0-2 COLLECTED @ 1330 100% REC
OS-3 2-6 COLLECTED @ 1340 85% REC
OS-3 6-10 COLLECTED @ 1350 60% REC
OS-3 10-14 COLLECTED @ 1405 100% REC
SEE FIELD SHEET FOR PID READINGS &
SAMPLE COLLECTION

1435 HODGE BRINGS OS-4 0-14 FT
OS-4 0-2 COLLECTED @ 1415 100% REC
OS-4 2-6 COLLECTED @ 1420 85% REC

[illegible]on AGROMAC Date 1/21/02

Project / Client BAW

BEN WOLFE

1435 CONT OS 4 6-10 COLLECTED @ 1430 75% REC
OS 4 10-14 COLLECTED @ 1434 90% REC
SEE FIELD SHEET FOR PID READING &
SAMPLE COLLECTION

1400 LEFT SITE

BAW
1/21/02

Location: Gering, NE Date: 1/21/02

Project / Client: Agromac - Locwood Site

Sharon P. Martin

0700 Arrived onsite and organized/labelled sample containers for first two samples, while Jeff Hodge got several things organized. Ended up not sampling until a later time, so actual sample time is written on field sheets for these first two samples. We sampled sludge in the three pits in the Galvanizing Bldg. Also sampled the metallic material found in cracks in cement and bricks upon coring and sampled the zinc pit backfill material.

11:30 Left for lunch

12:30 Return from lunch and finished last 2 samples mentioned above. Then I disconnected sieves and macrocore/soil gas barrels, sieved a few dried samples, and organized field sheets back into original folders.

Sharon P. Martin

Location: Gering, NE Date: 1/22/02

Project / Client: Agromac - Lockwood Site

Sharon P. Martin

0700 Arrived onsite. Going to remeasure depth to water in all 23 monitoring wells first thing this morning. A double check on previous measurements and recharge rates.

RF4	19.20'	depth to top of casing, N side
LW4	12.92'	
RF1	11.29'	
RF2	11.02'	
RF3	11.68'	
M-5	10.19'	
M-4	9.64'	
M-1	9.28'	
MI-1	8.26'	
M-2	9.03'	
M-7	9.67'	black mark on S side ~½' higher
LW-2	17.98'	(had key this time)
~~RF~~ LW-5	16.90'	broken cap and locking hasp
Sm RF-5	19.37'	
LW-8	19.99'	broken plastic cap
LW-3	18.88'	
LW-7	17.67'	broken plastic cap

(cont.)

Location: Gering, NE Date: 1/22/02

Project / Client: Agromac - Lockwood Site

Sharon P. Martin

(cont.)

MI-2 8.76'

M-6 9.27' Top of Casing badly broken, measured to a stub on N side. which appears "correct".

(No seal)

M-8 9.90' (Left New Lock on)

M-3 9.71' (" " " ")

LW-1 19.90 (" " " ") - Ft Locked this time

10:40 Finished MW measurements. Didnt measure LW-6, due to difficulty (subterranean).

Sharon P. Martin

1100 After cleaning out vehicle, started warmup on Niton XRF unit.

12:15 Had to deal w/ a flat tire, so turned Niton unit back on to warm up 10 minutes -- was off about 15 minutes only.

12:30 Reset Niton unit to calibrate it.

12:45 Screening Niton Blank & Medium Std. as set #36.

13:45 Screening Niton Blank & Med. Std. as set #37.

Location: Gering, NE Date: 1/22/02

Project / Client: Agromac - Lockwood Site

Sharon P. Martin

1448 Screening Niton Blank & Med. Std. as set #38.

~~1520~~ SPM

1544 Screening Niton Blank & Med Std. as set #39.

1650 Screening Niton Blank & Med. Std. as set #40.

1750 Screening Niton Blank & Med. Std. as set #41.

1850 Screening Niton Blank & Med Std as set #42

1945 Screening Niton Blank & Med. Std. as set #43, after a brief break to sieve last 4 soil samples. SPM

1200-1700 - Collected photographs of sampling locations and recorded GPS locations.

[signature]

Location Gering, NE Date 1/23/02

Project / Client Agromac-Lockwood Site

Shawn P. Martin

0700 Arrived onsite, cleaned sieves, then sieved sludge samples, as possible.

Two were not yet dry -- (not sieved)

MTS-GB-SLU1 - Reddish Brown

SMWB-SLU - had desiccation cracks, but only surface layer had dried - coal tar smell

Two had been dried by heating outdoors with a propane heater:

ST-SLU - dk grayish brown, very sandy

MTS-GB-SLU3 - contained some rubbery material after heating - was green sludge, not reddish brown brick-like material.

HWSC-SLU had elongated "fibrous" strands -- most of which did not go thru sieve - brownish-black color

Beta acid xylls - slight yellowish green hue; xylls on outside of bags are much more yellow.

MTS-GB-SLU4 - lt. gray

MTS-GB-SLU2 - lt. brown w/white specs.

SPM

Location Gering, NE Date 1/23/02

Project / Client Agromac-Lockwood Site

Shawn P. Martin

0945 Charged batteries in warm-up room XRF unit, then calibrated and ready for Niton Blank and Med. Std. as set #44. Will record first measurements here until Ben can log back onto computer.

	Blank #44	Med. Std
Mn	<256 (ppm)	<1500 (ppm)
Zn	<52	338
Pb	<21	1170
Cr	—	<810
Hg	<16	—
As	<21	<120
Se	<15	—
Ba	<56	647
Cd	<47	<72
Ag	<310	<310

Later recorded in database.

1030 Screening Niton Blank & Med Std as set #45.

1125 Completed sludge XRF.

1215 Broke for lunch.

1415 Returned from lunch.

- Finished preparing samples for shipment.

Location: Gering, NE Date: 1/23/02

Project / Client: Agromac

G9071.L.01.0008.10

1511	Turned on Niton XRF.
1515	Calibrated Niton XRF.
1522	Screened the Niton Blank and the Niton Medium Standard. ~~(Set #15)~~ 1/23/02 (Set #1) (In File: Soils-Metals)
1540	The Field Project Manager said we don't have to screen all samples being sent for lab analysis. - Turned the Niton XRF off. - Packed it up in cases.

Location: AGROMAC Date: 1/24/02

Project / Client: BAW BEN WOLFE

0805	HODGE OPENS DRUM 1 TAKES PID READING OF MATERIALS INSIDE DRUM PID READING = 2.5
0810	HODGE TAKES SAMPLE OF MATERIAL FROM DRUM 1. MATERIAL IS DARK BROWN IN COLOR AND VISCUS DRUM IS 3/4 FULL.
0815	MOVED TO DRUM 2
0817	HODGE OPENS DRUM 2 TAKES PID READING OF MATERIAL INSIDE PID READING = 4.0 DRUM IS 3/4 FULL
0821	HODGE TAKES SAMPLE OF MATERIAL FROM DRUM 2. MATERIAL IS DARK BROWN IN COLOR AND VISCUS
0821	MOVED TO DRUM 3 BEHIND (SOUTH) OF GALVANIZING BUILDING
0825	HODGE OPENS DRUM 3 TAKES PID READING. PID READING = 0.0 DRUM 1/4 FULL
0830	HODGE TAKES SAMPLE OF MATERIAL FROM DRUM 3 MATERIAL IS YELLOW IN COLOR AND HAS JELLY-LIKE CONSISTANCY
0831	MOVED TO ~~DRUM 4~~ BAW GALVANIZING BUILDING

Location: AGROMAC Date: 1/24/02

Project / Client: BAW
BEN WOLFE

0840 HODGE SAMPLES CRYSTALS FROM SACKS IN GALVANIZING BUILDING TAKES PID READING FROM SACK. PID READING = 0.0

0842 MOVED TO DRUM 4 WEST OF GALVANIZING BUILDING IN OPEN SHED.

0845 HODGE OPENS DRUM 4 TAKES PID READING. PID READING = 650.0

0849 HODGE SAMPLES MATERIAL FROM DRUM 4. MATERIAL IS YELLOW IN COLOR. LIQUID MATERIAL. SLIGHT BLUEISH TINT. DRUM IS FULL

0900 LOOKED INSIDE SALVAGE BUILDING EMPTY. NO APPARENT DRAINS EXCEPT FOR BATHROOM ON SOUTH WEST CORNER OF BUILDING. SALVAGE BUILDING ON EAST SOUTH EAST SIDE OF PROPERTY.

1000 - Finished HAZCAT work. see sheet for results

Location: Date:

Project / Client:

Location Agromac Date 1/15/02

Project / Client Gering, NE

Sharon P. Martin

8:35 Started sampling of MW LW4. Difficulty getting to 40 stabilization takes about 5 minutes per reading. See field sheet for field parameters and conditions filled.

SPM

10:20 Started sampling MW RF-5. As above. Getting cold w/ wind chill. Got ice balls on gloves so filtering VOAs then later transferring to 2 10ml samples for onsite lab -- for (starting with) next sample. Took duplicate.

SPM

12:15 Starting sampling MW-LW7. Recharge is slow and lot of sediment in well. Took duplicate. Filtering is very slow.

SPM

2:30 Started sampling MW-LW8 which will also collect matrix spike and matrix spike duplicate (MS/MSD) samples for. Using peristaltic pump to sample and filter.

SPM

Location Agromac - Lockwood Date 1/15/02

Project / Client Gering, NE

Sharon P. Martin

(cont.)

3:30 Sampling MW. RF-3. Same procedures as last well sampling, but no duplicates or spike samples here. Water more clear and lower sediment.

SPM

4:45 Sampling MW-MI-2. Had to use bolt cutters for entry into gate as none held a key to fit the new lock on it. Same sampling procedure as last 2 wells, except needed battery power for peristaltic pump due to distance from vehicle.

SPM

6:00 Repackaged samples and discovered had mistakenly used field sheet and tags for MI-1 well on MI-2 wells, so will change labels to match water. Chain of custody completed (forms) for all samples and organized for sampling last 9 monitoring wells tomorrow.

Sharon P. Martin
1/15/02

Location [illegible]rDmac-Lockwood Date 1/16/01

Project / Client Sherwin L. Martin

Sampled wells M1, M2, and MI-1 today in same fashion as yesterday -- using peristaltic pump. Field sheets have depth to water and field parameters. Finished covering all drums of purge/sample water and identified wells needing new locks - 12 of them, plus one long lock. Drum by M-5 has leaked onto ground-some, before freezing. Sunny day, less wind.

SPM 1/16/01

Location AEROMAC - LOCKWOOD Date 1/16/02

Project / Client BAW BEN WOLFE

1400	INSIDE OFFICE BUILDING PREPARATION OF SOIL SAMPLING. JEFF HODGE EXPLAINS SAMPLING STRATEGY. SET UP DECON AREA & SAMPLING AREA. CALIBRATE PIDS
1421	HODGE BRINGS FIRST SET OF CORES SA-A1 & SA-A2
	CORE SA-A4 COLLECTED 1404 90% RECOVERY
	CORE SA-A3 COLLECTED 1413 100% RECOVERY
	SEE FIELD SHEET FOR PID & SAMPLE COLLECTION
1512	CORE SA-A1 - COLLECTED 1434 90% REC
	CORE SA-A2 - COLLECTED 1423 100% REC
	SEE FIELD SHEET FOR PID & SAMPLE COLLECTION
1545	CORE SA-B1 COLLECTED 1441 90% REC
	CORE SA-B2 COLLECTED 1448 90% REC
~~1620~~ BAW	SEE FIELD SHEET FOR PID & SAMPLE COLLECTION
1620	CORE SA-B3 COLLECTED 1456 90% REC
	CORE SA-B4 COLLECTED 1504 90% REC
~~1655~~ BAW	SEE FIELD SHEET FOR PID & SAMPLE COLLECTION
1655	CORE SA-C1 COLLECTED 1536 90% REC
	CORE SA-C2 COLLECTED 1526 90% REC
	SEE FIELD SHEET FOR PID & SAMPLE COLLECTION
1725	CORE SA-C3 COLLECTED 1521 90% REC
	CORE SA-C4 COLLECTED 1510 90% REC
	SEE FIELD SHEET FOR PID & SAMPLE COLLECTION

Location Agromac Date 1/16/02

Project / Client ECS

Eric Scott

17:45 core SA D1 collected @ 1607 and core SA D2 collected @ 1602 see field log sheets for PID readings + sample collection SA D1 80% recov SA D2 has 100% recovery

18:05 screen cores SA-D3 and SA-D4 both cores have 100% recovery, brown silt, dry to slightly damp, see field log sheets for PID and sample data.

18:20 screen cores SA E1 and SA E2 collected @ 16:38 and 16:33 respectively material is light yellow brown silt, E1 has 100% recovery, E2 has 75% recovery see field sheets for PID and sample data

18:40 screen cores SA E3 and SA E4 collected @ 1623 and 1615 respectively material is brown to light brown silt w/ trace clay dry to slightly damp. both E3 and E4 have 100% recovery see field sheets for PID and sample data.

18:50 done screening shallow cores for area SA

Location AGROMAC Date 1-17-2002

Project / Client SAW

BEN WOLDER

730 ARRIVE AT SITE SET UP SAMPLING AREA AND TABLE

800 CALIBRATE PIDs

900 RECEIVED CORES FROM HODGE
CORE HWSD A1 COLLECTED 830 85% REC
CORE HWSD A2 COLLECTED 837 90% REC
CORE HWSD A3 COLLECTED 845 100% REC
SEE FIELD SHEET FOR PID READING + SAMPLE COLLECTION

945 RECEIVED CORES HWSD A4, B4, B1, B2, B3
CORE HWSD A4 COLLECTED 852 100% REC
CORE HWSD B4 COLLECTED 0900 100% REC
CORE HWSD B1 COLLECTED 0935 75% REC
CORE HWSD B2 COLLECTED 0929 100% REC
CORE HWSD B3 COLLECTED 0924 100% REC
SEE FIELD SHEETS FOR PID READING + SAMPLE COLLECTION

1230 BROKE FOR LUNCH

1330 SET UP FOR NEXT BATCH OF SOIL SAMPLES FINISHED SIEVING PREVIOUS SAMPLES

1430 RECEIVED CORES HWSA-A1 & A2
CORE HWSA-1 1410 COLLECTED 80% REC
CORE HWSA-2 COLLECTED 1421 100% REC
SEE FIELD SHEET FOR PID & SAMPLE COLLECTION

Location Agrofumac Date 1/17/02

Project / Client BAW Bio Waste

1450 HOUSE DROPS OFF HWSA-3-4
HWSA-3 COLLECTED 1432 REC 95%
CORE HWSA 4 COLLECTED 1434 REC 100%
SEE FIELD SHEETS FOR PID READINGS & SAMPLE COLLECTION.

1520 HOUSE DROPS OFF HWSB-1 THROUGH 4
CORE HWSB-1 COLLECTED 1500 REC 100%
CORE HWSB 2 COLLECTED 1503 95% REC
CORE HWSB-3 COLLECTED 1520 90% REC
CORE HWSB-4 COLLECTED 1453 100% REC
SEE FIELD SHEETS FOR PID READINGS & SAMPLE COLLECTION

1734 DONE SAMPLING AND PID SCREENING
QUIT FOR DAY

1/17/02

Location Agrofumac Date 1/18/02

Project / Client BAW Bio Waste

730 ARRIVE AT OFFICE CLEAN UP TRASH FROM YESTERDAY

745 CALIBRATE PID

815 SCOTT BRINGS CORES SMP 8 0-10 FT
SMP 8 COLLECTED AT 0753 0-4 FT 100% REC
SMP 8 4-6 FT COLLECTED @ 0803 100% REC
SMP 8 6-10 FT COLLECTED @ 0810 100% REC
SEE FIELD SHEET FOR PID READING & SAMPLE COLLECTION

830 SCOTT BRINGS CORE SMP-7 0-10 FT
SMP 7 0-2 COLLECTED @ 0818 100% REC
SMP 7 2-6 COLLECTED @ 0824 75% REC
SMP 7 6-10 COLLECTED @ 0829 80% REC
SEE FIELD SHEET FOR PID READING & SAMPLE COLLECTION

850 SCOTT BRINGS CORE SMP 6 0-10 FT
SMP 6 0-2 COLLECTED @ 0833 90% REC
SMP 6 2-6 COLLECTED @ 0840 70% REC
SMP 6 6-10 COLLECTED @ 847 90% REC
SEE FIELD SHEET FOR PID READING & SAMPLE COLLECTION

900 SCOTT BRINGS CORE SMP 5 0-10 FT
SMP 5 0-2 COLLECTED @ 0853 100% REC
SMP 5 2-6 COLLECTED @ 0855 65% REC

[illegible] 1/17/02

[illegible]

17:45 core SA D1 [illegible] and core SA D2 [illegible] 12:02 [illegible] field log sheets for PID readings + sample collection SAD1 [illegible] SAD2 [illegible] recovery

18:05 screen cores [illegible] and [illegible] both cores have 100% recovery, brown silt, dry & slightly damp, see field log sheets for PID and sample data.

18:20 screen cores SAE1 and SAE2 collected @ 16:38 and 16:33 respectively material is light yellow brown silt, E1 has 100% recovery, E2 has 75% recovery see field sheets for PID and sample data

18:40 screen cores SAE3 and SAE4 collected @ 16:23 and 16:15 respectively material is brown to light brown silt w/ trace clay dry to slightly damp both E3 and E4 have 100% recovery see field sheets for PID and sample data.

18:50 done screening shallow cores for area SA

Acronym 1-17-02

[illegible]

[illegible] AT [illegible] SAMPLING AREA AND TABLE

[illegible] [illegible]

[illegible] RECEIVED CORES FROM [illegible]

CORE HWSD A1 COLLECTED 330 [illegible]

CORE HWSD A2 COLLECTED 537 [illegible]

CORE HWSD A3 COLLECTED 545 100% REC

SEE FIELD SHEET FOR PID READING & SAMPLE COLLECTION

1145 RECEIVED CORES HWSD A4, B4, B1, B2, B3

CORE HWSD A4 COLLECTED 5[illegible] 100% REC

CORE HWSD B4 COLLECTED 0[illegible] 100% REC

CORE HWSD B1 COLLECTED 0[illegible] 75% REC

CORE HWSD B2 COLLECTED 0[illegible] 100% REC

CORE HWSD B3 COLLECTED 0[illegible] 100% REC

SEE FIELD SHEETS FOR PID READING & SAMPLE COLLECTION

1230 BROKE FOR LUNCH

1330 SET UP FOR NEXT [illegible] SOIL SAMPLES

FINISHED SIEVING PREVIOUS SAMPLES

1430 RECEIVED CORES HWSA-A1 & A2

CORE HWSA 1 [illegible] COLLECTED 50% REC

CORE HWSA 2 COLLECTED 142[illegible] 100% REC

SEE FIELD SHEET FOR PID & SAMPLE COLLECTION

Location AGROMAC Date 1/17/02

Project / Client BAW BEN WOLFE

1450 HODGE DROPS OFF HWSA-3 & 4
HWSA-3 COLLECTED 1432 REC 95%
CORE HWSA 4 COLLECTED 1434 REC 100%
SEE FIELD SHEETS FOR PID READINGS & SAMPLE COLLECTION.

1520 HODGE DROPS OFF HWSB-1 THROUGH 4
CORE HWSB-1 COLLECTED 1500 REC 100%
CORE HWSB-2 COLLECTED 1503 95% REC
CORE HWSB-3 COLLECTED 1520 90% REC
CORE HWSB-4 COLLECTED 1453 100% REC
SEE FIELD SHEETS FOR PID READINGS & SAMPLE COLLECTION

1734 DONE SAMPLING AND PID SCREENING
QUIT FOR DAY

1/17/02
BAW

Location AGROMAC Date 1/18/02

Project / Client BAW BEN WOLFE

730 ARRIVE AT OFFICE CLEAN UP TRASH FROM YESTERDAY

745 CALIBRATE PID

815 SCOTT BRINGS CORE SMP 8 0-10 FT
SMP 8 COLLECTED AT 0753 0-4 FT 100% REC
SMP 8 4-6 FT COLLECTED @ 0803 100% REC
SMP 8 6-10 FT COLLECTED @ 0810 100% REC
SEE FIELD SHEET FOR PID READING & SAMPLE COLLECTION

830 SCOTT BRINGS CORE SMP-7 0-10 FT
SMP 7 0-2 COLLECTED @ 0818 100% REC
SMP 7 2-6 COLLECTED @ 0824 75% REC
SMP 7 6-10 COLLECTED @ 0828 80% REC
SEE FIELD SHEET FOR PID READING & SAMPLE COLLECTION

850 SCOTT BRINGS CORE SMP 6 0-10 FT
SMP 6 0-2 COLLECTED @ 0833 90% REC
SMP 6 2-6 COLLECTED @ 0840 70% REC
SMP 6 6-10 COLLECTED @ 847 90% REC
SEE FIELD SHEET FOR PID READING & SAMPLE COLLECTION

900 SCOTT BRINGS CORE SMP 5 0-10 FT
SMP 5 0-2 COLLECTED @ 0853 100% REC
SMP 5 2-6 COLLECTED @ 0855 65% REC

Location AGROMAC Date 1/18/02

Project / Client BAW

BEN WOLFE

SMP 5 6-10 COLLECTED @ 0554 90% REC
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

0930 SCOTT BRINGS CORE SMP 4 0-10 FT
SMP 4 0-2 COLLECTED @ 0911 100% REC
SMP 4 2-6 COLLECTED @ 0915 70% REC
SMP 4 6-10 COLLECTED @ 0921 100% REC
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION.

0950 SCOTT BRINGS CORE SMP 3 0-10 FT.
SMP 3 0-2 COLLECTED @ 0931 100% REC
SMP 3 2-6 COLLECTED @ 0937 65% REC
SMP 3 6-10 COLLECTED @ 0942 100% REC
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION.

1005 SCOTT BRINGS CORE SMP-2 0-10 FT
SMP 2 0-2 COLLECTED @ 0950 100% REC
SMP-2 2-6 COLLECTED @ 0954 60% REC
SMP 2 6-10 COLLECTED @ 1000 100% REC
SEE FIELD SHEET FOR PID READING & SAMPLE COLLECTION

1025 SCOTT BRINGS CORE SMP 1 0-10 FT
SMP 1 0-2 COLLECTED @ 1006 100% REC
SMP 1 2-6 COLLECTED @ 1010 90% REC
SMP 1 6-10 COLLECTED @ 1015 90% REC

Location AGROMAC Date 1/18/02

Project / Client BAW

BEN WOLFE

1025 CONT SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1050 SCOTT BRINGS CORE BA-2 0-10 FT
BA 2 0-2 COLLECTED 1035 100% REC
BA 2 2-6 COLLECTED 1036 80% REC
BA 2 6-10 COLLECTED 1041 90% REC
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1115 SCOTT BRINGS CORE BA 1 0-10 FT
BA 1 0-2 COLLECTED @ 1051 100% REC
BA 1 2-6 COLLECTED @ 1057 70% REC
BA 1 6-10 COLLECTED @ 1100 75% REC
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1135 SCOTT BRINGS CORE BA3 0-10 FT
BA 3 0-2 COLLECTED 1112 90% REC
BA 3 2-6 COLLECTED 1115 90% REC
BA 3 6-10 COLLECTED 1120 80% REC
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1210 BROKE FOR LUNCH

1335 SCOTT BRINGS CORE BP 1 0-10
BP 1 0-2 COLLECTED @ 1315 100% REC
BP 1 2-6 COLLECTED @ 1323 80% REC
BP 1 6-10 COLLECTED @ 1330 90% REC

Location AGROMAC Date 1/18/02

Project / Client BAW

BEN WOLFE

1335 CONT. SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1350 SCOTT BRINGS CORE BP-2 0-10 FT
BP 2 0-2 COLLECTED @ 1340 REC 100%
BP 2 2-6 COLLECTED @ 1343 REC 90%
BP 2 6-10 COLLECTED @ 1348 REC 85%
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1410 SCOTT BRINGS CORE BP 3 0-10 FT
BP 3 0-2 COLLECTED @ 1355 100% REC
BP 3 2-6 COLLECTED @ 1400 80% REC
BP 3 6-10 COLLECTED @ 1405 60% REC
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1430 SCOTT BRINGS CORE BP-4 0-10 FT
BP 4 0-2 COLLECTED @ 1414 REC 100%
BP 4 2-6 COLLECTED @ 1414 REC 80%
BP 4 6-10 COLLECTED @ 1425 REC 90%
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1445 HODGE BRINGS CORES OSEDS B4 A & B
OSDES B4 A 0-4 FT COLLECTED @ 1430 60% REC
OSDES B4 B 0-4 FT COLLECTED @ 1435 90% REC
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

Location AGROMAC Date 1/18/02

Project / Client BAW

BEN WOLFE

1515 SCOTT BRINGS CORES HWSC 1,2,6 & 7 0-4 FT
HWSC-1 COLLECTED @ 1450 REC 100%
HWSC-2 COLLECTED @ 1455 REC 100%
HWSC-6 COLLECTED @ 1500 REC 95%
HWSC-7 COLLECTED @ 1506 REC 95%
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1545 SCOTT BRINGS CORES HWSC 3,4,5,8 0-4
HWSC-3 COLLECTED @ 1534 REC 90%
HWSC-4 COLLECTED @ 1527 REC 90%
HWSC-5 COLLECTED @ 1514 REC 90%
HWSC-8 COLLECTED @ 1520 REC 85%
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1605 SCOTT BRINGS CORE SR-1 0-14 FT
SR1 0-2 COLLECTED @ 1545 100% REC
SR1 2-6 COLLECTED @ 1550 75% REC
SR1 6-10 COLLECTED @ 1555 95% REC
SR1 10-14 COLLECTED @ 1604 95% REC
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

1630 SCOTT BRINGS CORE SR-2 0-14 FT
SR2 0-2 COLLECTED @ 1610 REC 100%
SR5 2-6 COLLECTED @ 1615 REC 70%

Location Agromac Date 1/18/02

Project / Client

ECS Eric Scott & BAW BEN WOLFE

SR-2 6-10 COLLECTED @ 1620 100% REC
SR-2 10-14 COLLECTED @ 1625 REC 100%
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION.

17:10 Jeff Hodges & Eric Scott collect rinsate samples from sieve pan, Total Metals ECS and from macrocore barrel (metals and VOA) see field sheets

1815 CLEANED UP SAMPLE AREA AND LEFT SITE

BAW 1/18/02

Location AGROMAC Date 1/19/02

Project / Client BAW BEN WOLFE

0700 ARRIVE AT SITE, OPEN BUILDING STARTED SAMPLING FROM SOILS LEFT IN PANS OVERNIGHT TO DRY. SEE FIELD SHEETS FOR SAMPLE COLLECTION

0800 CALIBRATED PID. CONTINUED SAMPLING SOILS FROM PANS.

0820 SCOTT BRINGS CORE SR3 0-14 FT.
SR-3 0-2 FT COLLECTED @ 0740 100% REC
SR-3 2-6 COLLECTED @ 0745 80% REC
SR-3 6-10 COLLECTED @ 0750 95% REC
SR-3 10-14 COLLECTED @ 0800 95% REC
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION.

0850 SCOTT BRINGS CORE SR 4 0-14 FT.
SR 4 0-2 COLLECTED @ 0807 100% REC
SR 4 2-6 COLLECTED @ 0813 75% REC
SR 4 6-10 COLLECTED @ 0819 90% REC
SR 4 10-14 COLLECTED @ 0825 80% REC
SEE FIELD SHEET FOR PID READINGS & SAMPLE COLLECTION

0915 SCOTT BRINGS CORE SAP 1 0-14 FT
SAP 1 0-2 COLLECTED @ 0849 100% REC
SAP 1 2-6 COLLECTED @ 0850 90% REC
SAP 1 6-10 COLLECTED @ 0857 85% REC

Location AGROMAC Date 1/19/02

Project / Client GERING, NE

BAW
BEW WALKER

SAP 1 10-14 COLLECTED @ 0906 75% REC
SEE FIELD SHEET FOR PID READINGS &
SAMPLE COLLECTION

10:00 SCOTT BRINGS CORE SAP 2 0-14 FT
SAP 2 0-2 COLLECTED @ 0915 100% REC
SAP 2 2-6 COLLECTED @ 0922 85% REC
SAP 2 6-10 COLLECTED @ 0928 80% REC
SAP 2 10-14 COLLECTED @ 0937 85% REC
SEE FIELD SHEET FOR PID READINGS &
SAMPLE COLLECTION

1050 SCOTT BRINGS CORES SAP 3 & 4 0-10 FT
SAP 3 0-2 COLLECTED @ 0950 100% REC
SAP 3 2-6 COLLECTED @ 0954 90% REC
SAP 3 6-10 COLLECTED @ 1000 80% REC
SAP 3 10-14 COLLECTED @ 1015 10% REC
SAP 4 0-2 COLLECTED @ 1020 100% REC
SAP 4 2-6 COLLECTED @ 1026 80% REC
SAP 4 6-10 COLLECTED @ 1034 85% REC
SAP 4 10-14 COLLECTED @ 1041 90% REC
SEE FIELD SHEET FOR PID READINGS &
SAMPLE COLLECTION

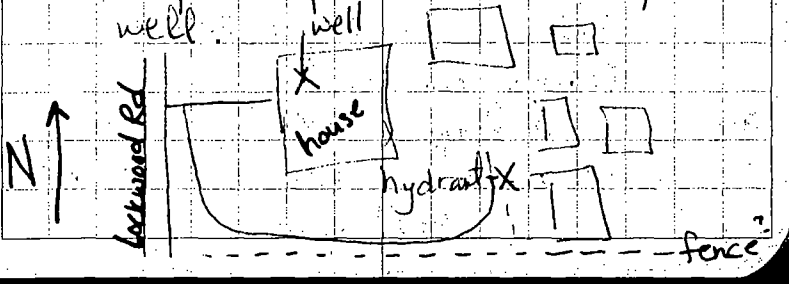
1200 Broke for lunch
1255 Returned from lunch
- Met with Ralph Lanphier

Location Gering, NE Date 1/19/02

Project / Client Agromac

TV Susha R Dealy

12:55 Cont'd
- Prepared for Private Well Water Sampling activities
13:00 - Calibrated Hanna water meter ST 0543 with pH 7.0 and 4.01.
- Loaded coolers with sample containers, and sample collection equipment.
14:30 Left site
14:31 Arrived at The Greckel residence at 130853 Lockwood Road.
- No one home.
14:34 Left Greckel residence
14:35 Arrived at Robison residence at 130897 Lockwood Road
- Spoke to Mr. Robison (who is almost completely deaf.)
He gave us permission to sample well.



Location [illegible]ring, NE Date 1/19/02

Project / Client Agromac

Sisha R. Dealy

1444 Turned on hydrant
(Address is:
Steven (& Nelda) Robison
130897 Lockwood Rd.
Gering, NE 69341

1448 Began taking water readings with Hanna HI 991301

Time	pH	temp (°F)	cond (MS)
1448	7.28	52.5	1.28
1449	7.34	51.7	1.28
1450	7.33	53.3	1.27

1452 Began collecting sample
OS-PW-10

- Mr. Robison brought us a copy of a letter from Demetra Salisbury (RCRA Corrective Actions & Permits Branch) at EPA. The USGS collected samples in cooperation w/ EPA. (ph: 913-551-7369)
- Letter dated Aug. 1, 2000.
- Results indicated:
  J-flagged PCE (low levels)
  Arsenic (below MCL...) etc.
  ↳ 22 ppm?

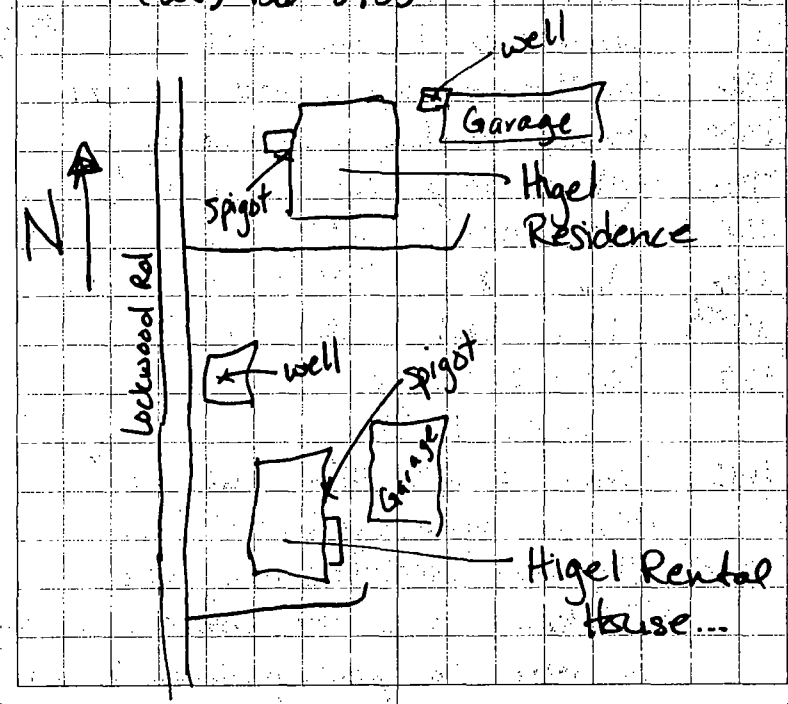
Lo[illegible] Gering, NE Date 1/19/02

Project / Client Agromac

Sisha R. Dealy

- Collected GPS reading by house, near well location. (Well located inside house...) (North end)
  Robison well

1515 Left Robison residence and drove next door to Higel residence.
Jerold and Rosalie Higel
131015 Lockwood Rd.
Gering, NE 69341
(308) 436-5755



Gering, NE 1/19/02
Agromac
TT Susha R. Dealy

1525 Turned on spigot on west side of house, by stairs at front door.
1530 Began collecting water readings

Time	pH	temp	cond
1530	7.49	46.4	1.27
1531	7.55	49.2	1.24
1532	7.56	50.2	1.24

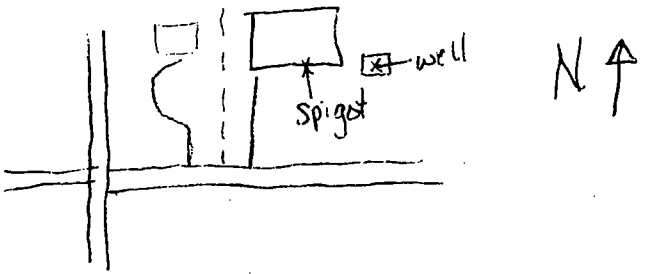
1535 Began collecting sample OS-PW-11
1547 Drove next door to Higel Rental House (see fig. on pg. 19) (131041 Cty. Rd. P)
1550 Turned on spigot on back of house
1553 Began collecting water readings

Time	pH	temp	cond
1553	7.51	51.4	1.28
1554	7.51	52.6	1.27
1555	7.52	52.9	1.27

1557 Collected Sample OS-PW-12
1615 Drove to 230246 County Rd P
- No one answered
1616 Drove to 230274 County Rd P
- Spoke to residents about sampling activities. They gave us permission to sample well.

Gering, NE 1/19/02
Agromac
TT Susha R. Dealy

Wolfe Gitschel
230274 County Rd. P
Gering, NE 69341



1624 Turned on spigot on South side of house.
1626 Began collecting water readings.

Time	pH	temp	cond
1626	7.68	50.7	1.25
1627	7.66	51.1	1.25
1628	7.66	51.3	1.25

1631 Collected Sample OS-PW-13
1646 Left the Gitschel residence and returned to 230246 County Rd P
- Spoke to the residents about sampling activities.

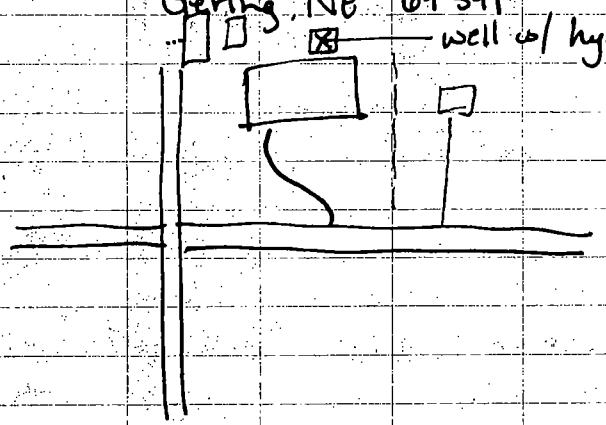
Location Gering, NE Date 1/19/02

Project / Client Agromac

R Sisha R. Dealy

- Received permission to sample well.

Lois & Tom Anderson
2302 246 County Rd. P
Gering, NE 69341



1654 Turned on hydrant at well on North side of house.
1659 Began collecting water readings.

Time	pH	temp	cond
1659	7.53	51.1	1.28
1701	7.56	49.9	1.26
1702	7.54	50.5	1.26

1704 Collected sample OS-PW-14
1720 Left residence and returned to office.

Location Gering, NE Date 1/19/02

Project / Client Agromac

R Sisha R. Dealy

* Notes: Robison information may be under Nelda's name, or N. Robison.
- Robison's drink bottled water. well is still hooked up to house, but is treated by Culligan.
- Lois & Tom Anderson information may be under the name Urich, which was Lois's first husband's name. (Such as the well info...)

18 00 Left site.

R 1/19/02

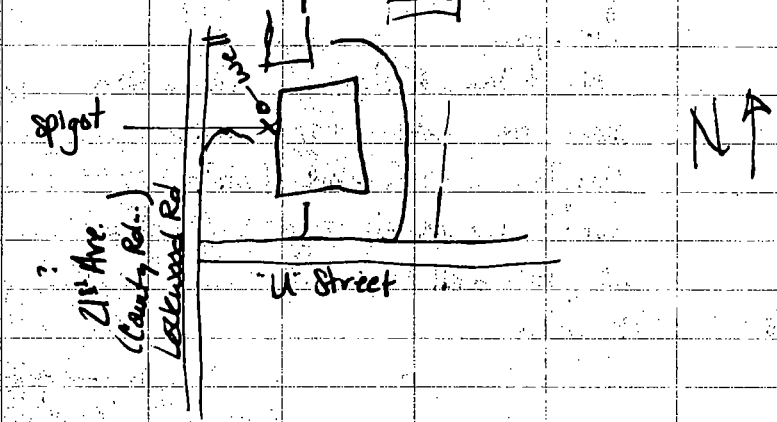
Location Gering, NE Date 1/20/02

Project / Client Agromac

Sisha R Healy

1410 Left site for private well sampling activities.

1413 Arrived at the Lynn Engelman residence.
- Spoke to Mr. Engelman about sampling activities. Received permission to sample well.



1419 Turned on

1422 Began collecting water readings

Time	pH	temp.	cond
1422	7.48	52.8	1.16
1423	7.41	53.9	1.16
1424	7.43	53.6	1.16

1427 Collected sample OS-PW-3
Lynn Engelman

Location Gering, NE Date 1/20/02

Project / Client Agromac

Sisha R Healy

1445 Drove to the Henkel residence.
- Spoke to residents about sampling activities. (During previous phone conversation and visit to home, they gave verbal access/permission to sample well.) Received permission to sample well. He indicated there was no treatment system for their water.

* Henry and Wanda Henkel
~~[illegible]~~ wrong address? 1/20/02
14 0216 21st Ave.
Gering, NE 69341
- Mr. Henkel says their well is about 50 feet deep. It is 20 feet to water and there is 30 feet of water
- They also have 3 4 irrigation wells 1/20/02
- Eric Scott used the GPS unit to locate all the wells.

1/20/02 Note:
-3 irrigation wells
-4 wells total

1458 Turned on hydrant.

1508 Began collecting water readings with the Hanna HI 991301

Location: Gering, NE Date: 1/20/02

Project / Client: Agromac

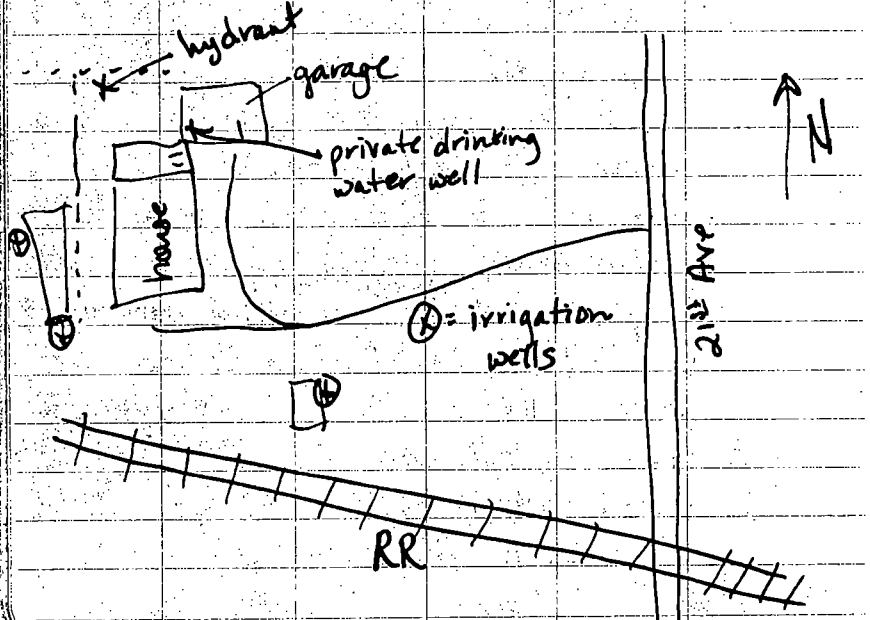
Trisha R. Healy

Time	pH	temp	cond
1508	7.65	50.5	0.89
1510	7.67	50.2	0.90
1511	7.63	50.3	0.90

1512 Began collecting sample OS-PW-4

1525 Left Henkel residence. (Went back to collect GPS readings from locations yesterday...)

Note: Map of Henkel residence



Location: Gering, NE Date: 1/20/02

Project / Client: Agromac

Trisha R. Healy

1600 Arrived at farmstead immediately South of site. Resident says house is owned by Frank Strong of Strong Construction, which will not be open until Monday. We tried calling the number given, which is for Mike Koehn, but the phone has been disconnected and no one answered the cell phone.

1605 Went to Sunset Drive, just South of drainage ditch.

1614 Turned on faucet in bathroom at:
Mark Chrisman (garage)
140 142 Sunset Dr.
Gering, NE 69341
- the well is on the South side of block building to the NE of garage bldg.

1617 Began collecting water readings.

Time	pH	temp (°F)	cond (mS)
1617	7.77	47.3	0.98
1618	7.69	47.9	0.99
1619	7.68	48.0	1.00

* Map on next pg.

1621 Collected sample OS-PW-5

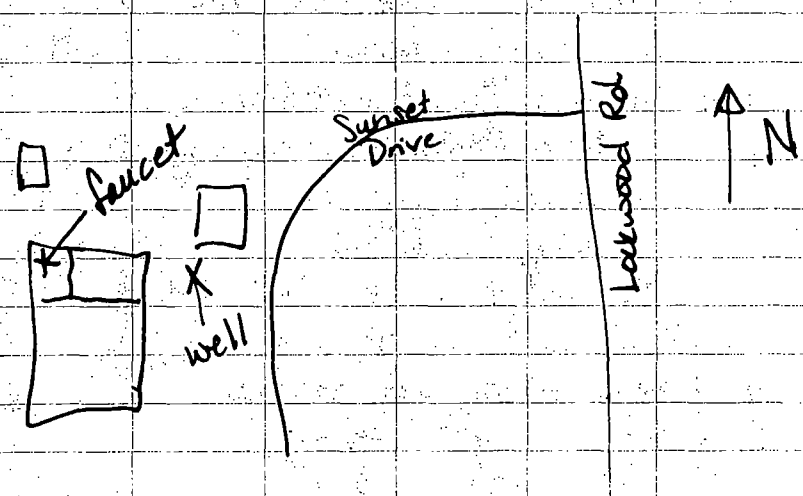
Location Gering, NE Date 1/20/02

Project / Client Agromac

P. Sisha R. Dealy

Note: Sign on side of truck at location.
Mark Chrisman Trucking
- Construction & Excavation
Office: 436-2844
Home: 436-2175
Cell: 631-3476

* Map showing location of sample



Note: Mr. Chrisman indicated all buildings on Sunset Dr. (on other side of drainage ditch) have private wells.

Location Gering, NE Date 1/20/02

Project / Client Agromac

P. Sisha R. Dealy

16 37 Arrived at CS Precision Manufacturing at 140028 Lockwood Rd. Verified they are on city water with no private well.
- Drove around looking for private wells. All buildings are either empty (industrial/commercial on Sunday) or new with a city water line running by them.

16 50 Returned to office.

18 00 Left site.

P 1/20/02

Locat[redacted]ering, NE Date 1/21/02

Project / Client Agromac

Sisha R. Dealy

0700 Arrived at site.
- Split into teams and prepared for sampling and GPS activities.

0750 Went to Furst-McNess corporation/building and talked to Gene, The office manager about sampling activities. He indicated they own all property to road south and RR tracks east. He would check with his company to make sure it was okay to take background sample from their location. He also indicated they are on city water and do not have a private well.

0805 Returned to office to prepare for sampling activities and arrange to meet with necessary people.

0850 Calibrated water meter Hanna HI 991301 with pH 7.00 and 4.01.

0900 Met with locate people to clear

Lo[redacted] Gering, NE Date 1/21/02

Project / Client Agromac

Sisha R. Dealy

0900 cont'd - Furst McNess property for background locations.
gas
electric
phone
water
- They indicated it is a "dead" lot.
(Nutritional Premixes for Animals = Furst McNess..)

0910 Met with Gene Barnett, The plant manager, again. Gave him a business card and he made photocopy of EPA Contractor ID card. He said he needs a written statement of what we are looking for.
- Called Curt and let him know.
- Gave FAX #:
Gene Barnett, Plant Manager
(Furst McNess Co.)
780 Rundell Rd.
Gering, NE 69341
-800-347-3159 Fax: 308-436-3932
Bus: 308-436-3536 Res: 308-436-5354

Location [illegible]ing, NE Date 1/21/02

Project / Client Agromac

TF Sisha R. Dealy

0930 Loaded Cargo van for private well sampling.

0940 Left office.

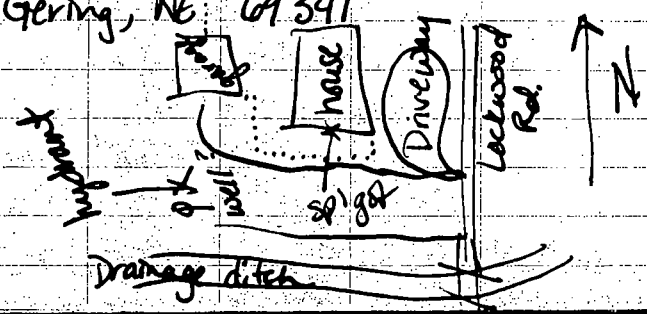
0945 Arrived at office where Strong Construction trucks are parked.

- It is NOT Strong Construction, but the Strong Construction workers are at the property. Bob Baquet, who lives in the farmhouse South of Agromac, says we can sample his well.

0953 Left property to go to the farmhouse.

0957 Arrived at farmhouse.

Bob Baquet
140208 Lockwood Rd.
Gering, NE 69341



Lo[illegible] Gering, NE Date 1/21/02

Project / Client Agromac

TF Sisha R. Dealy

10 10 Turned on hydrant. (Attempted.)
- Hydrant does not work...

10 16 Turned on spigot on South side of house.

10 23 Began collecting water readings.

Time	pH	temp	cond
10 24	7.36	53.0	1.17
10 25	7.52	53.6	1.15
10 26	7.58	52.7	1.16

10 30 Collected sample OS-PW-6

10 50 Left property.

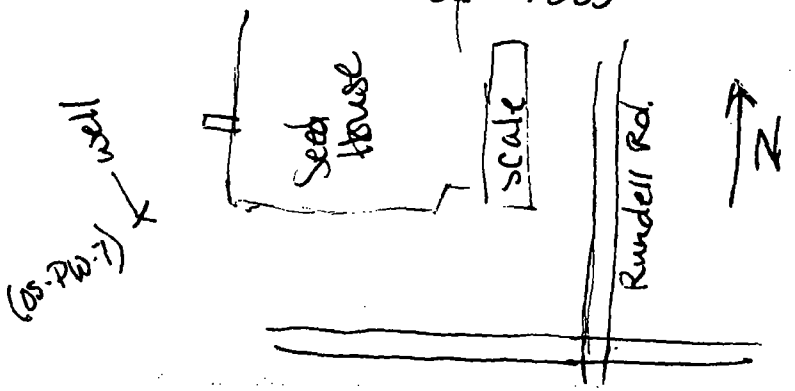
10 57 Stopped at County Weed District building. It was closed for the holiday and no one answered door.

11 02 Stopped at Gibb & Sons. at 305 East D.
- He said they were on city water and there are no private wells.
- He said there used to be an artesion well nearby and to ask the city...

Gering, NE 1/21/02
Agromac
T Sisha R. Dealy

1110 Arrived at New Alliance Bean & Grain located at 951 Rundell Rd.
- I spoke to Nolan Berry, the Plant Manager, who said there is a private well on the property. It is not used and has not been used since at least 1989 when he became manager here. He gave us permission to sample the well.

Nolan Berry
(New Alliance Bean & Grain)
P.O. Box 462
Gering, NE 69341
Home phone: 308-436-7304
Fax: 308-436-7533



Gering, NE 1/21/02
Agromac
T Sisha R. Dealy

- Then returned to office.
1200 Broke for lunch.
- Bought Ziplock bags for samples.
1300 Returned to office.
- Prepared samples for shipment.
1330 Met with: - at Municipal Well #6.
Eugene Peterson
Terry Yeager
from the City of Gering.
1336 Turned pump/well on. (Mun Well #6)
1345 Began collecting water readings.

Time	pH	temp	cond
1348	7.77	59.7	1.38
1349	7.80	59.7	1.37
1350	7.82	59.5	1.36

1354 Collected sample
OS-MuW-1
- The guys from the city indicated the well is not used (has not been used for 3 years). It used to be an "artesian well." It is a

Location Gering, NE Date 1/21/02

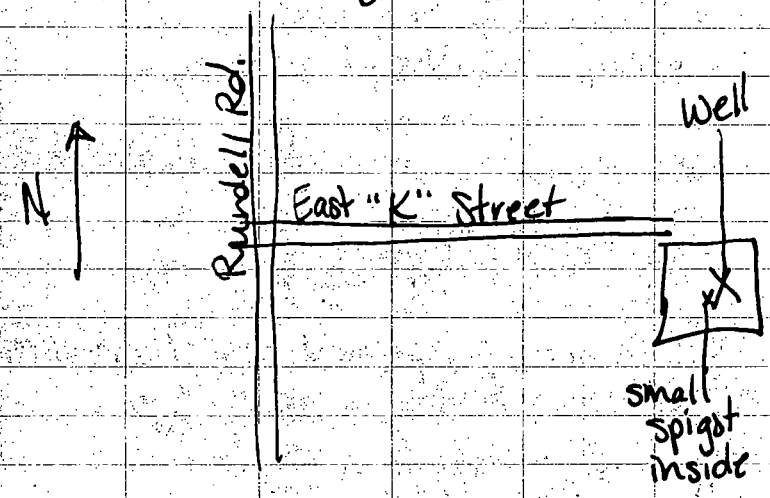
Project / Client Agromac

P Sinha R Dealy

Standby well. (*)

1415 Returned to office.

*Note: Location of Municipal Well #6



- Loaded supplies needed to sample OS-PW-7. It is considered a "lawn and garden" well, and it looks like a deep hole in the ground.

1512 Returned to 951 Rundell Rd to OS-PW-7.

- Static water level = 12.38 ft from top of casing P 1/21/02
- Total depth = 30.8 ft
(measured from top of casing: below ground level?)

Location Gering, NE Date 1/21/02

Project / Client Agromac

P Sinha R Dealy

cont'd

Purge calculation: (4" casing diameter)
30.8 - 12.38 = 18.42 ft.
18.42 * 0.65 = 11.97 * 3 = 35.91 gal.

1600 Began purging well with Geotech Peristaltic Pump.

1915 Turned off pump. Completed purging the well.
- Returned to office.
- Will sample well tomorrow morning.

1930 Left site.

P 1/21/02

Location [redacted]ring NE Date 1/22/02

Project / Client Agromac

ECS Eric Aust

8:00 arrive @ well OS-PW-7 to sample. Well was purged yesterday eve. Weather this morning 20° and sunny with light N breeze. S.W.L. = 12.33' btoc

calibrated HANNA meter ST0543 this AM using pH 7.01 and 4.01 buffers.

pH	temp. (°F)	cond. (mS)
7.33	53.2°	0.91
7.56	52.1°	0.92
7.61	51.8°	0.92
7.61	52.0°	0.92
7.60	52.8	0.92

8:33 sample well OS-PW-7 collect
1 500 mL total metals pre preserved
1 500 mL diss. metals " pre-preserved
3 40 mL VOA clear glass
2 40 mL VOA " " not preserved

8:50 all samples collected leave OS-PW-7

9:00 prepare to sample well @ Murphy tractor + equipment warehouse located on NW corner of Hwy 92 and Lakwood Rd (220810 Hwy 92) - see business card sample will be from bathroom tap in white warehouse bldg. well is

Lo[redacted] Gering NE Date 1/22/02

Project / Client Agromac ECS

located in NE corner of the warehouse bldg in a pit. had pump work done last week * well will be OS-PW-08

pH	temp (°F)	cond (mS)
7.51	55.0	1.19
7.48	55.5	1.19
7.45	55.7	1.21
7.48	55.8	1.20

9:15 begin collecting OS-PW-08 same sample set as OS-PW-7

9:30 done collecting samples for OS-PW-08 Jeff will GPS well this aft.

9:40 return to office, unload truck, relinquish logbook ECS

MURPHY
TRACTOR & EQUIPMENT CO.
JOHN DEERE

MAX MILLER
Branch Manager/Used Equipment Manager

220810 Hwy. 92
PO Box 460
Gering, NE 69341

BUS: (308) 436-2177
FAX: (308) 436-7645
MOBILE: (308) 631-1222
HOME: (308) 635-1244
TOLL FREE: 800-205-6784

Location Gering, NE Date 1/22/02

Project / Client Agromac Lockwood

1100 Wolfe brought cores GB-S-01 to office
GB-1-0-2 collected @ 1040 20% rec.
GB-1-2-6 collected @ 1045 40% rec.
GB-1-6-10 collected at 0950 95% rec.
GB-1-10/14 collected at 1100 90% rec
1120 Wolfe brought GB-S to office
GB-2-0-2 collected @ 1110 20% rec.
GB-2-2-6 collected @ 1115 30% rec.
GB-2-6-10 collected 1117 60% rec.
1150 Wolfe brought GB-3 to office
GB-2-10-14 collected @ 1120 70% rec
GB-3-0/2 1135 collection 30% rec.
GB-3-2/6 collected @ 1140 50% rec.
GB-3-6/10 collected @ 1143 80% rec
GB-3-10-14 collected 1148 80% rec
1215 Wolfe brought GB4 into office
GB-4-0/2 collected at 1155 15% rec.
GB4-2/4 collected at 1201 20% rec.
Cleopak met refusal at 4 feet
no more cores for GB4 taken
HWSC-S-9-0-4 collected 1215
80% recovery

Location Gering, NE Date 1/22/02

Project / Client Agromac

P Sisha R Ready

1540 Prepared the PE samples to ship with other samples to the lab.
- Labeled as OS-PW-9
  Date 1/22/02
  Time 0950
  (filled out field sheet.)
- The PE sample was from Environmental Resource Associates (see www.eraqc.com)
- The VOA's:
  ID# 0116-02-07.1
  preserved with HCl
- The 1L poly for total metals:
  ID# 0116-02-07.2
  preserved with HNO_3

(tags taped to other side of this sheet: pg. 42)

1/22/02

Location: Gering, NE Date: 1/22/02

Project / Client: Agromac

(PE sampler labels ...)

Location: Gering, NE Date: 1/23/02

Project / Client: Agromac

~~1511 Turned on Niton XRF.~~ TP 1/23/02

(Started using different logbook ...)

TP 1/23/02

APPENDIX C

SITE PHOTOGRAPHIC LOG

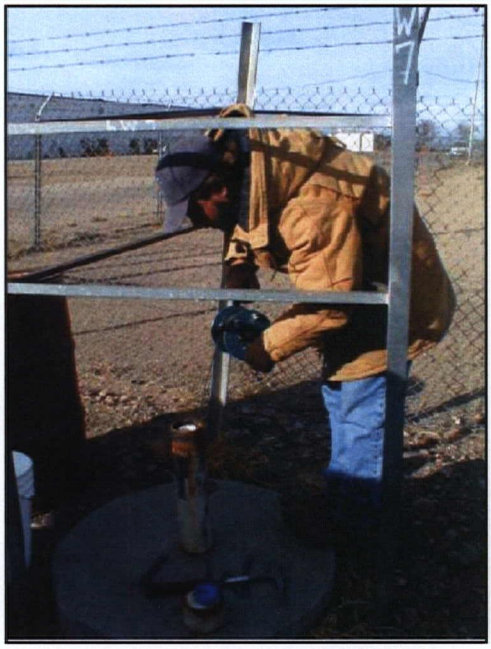
Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Monitoring well LW-1	1
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: E	PHOTOGRAPHER	Crystal Roberts	01/14/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Monitoring well RF-5	2
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Crystal Roberts	01/14/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Monitoring well LW-8	3
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: WSW	PHOTOGRAPHER	Crystal Roberts	01/14/02



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	START team member checking the depth to water at monitoring well LW-7	4
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NW	PHOTOGRAPHER	Crystal Roberts	01/14/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	START team member purging monitoring well LW-3	5
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Crystal Roberts	01/14/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of monitoring well LW-2	6
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NW	PHOTOGRAPHER	Crystal Roberts	01/14/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of monitoring well RF 4	7
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SE	PHOTOGRAPHER	Crystal Roberts	01/14/02

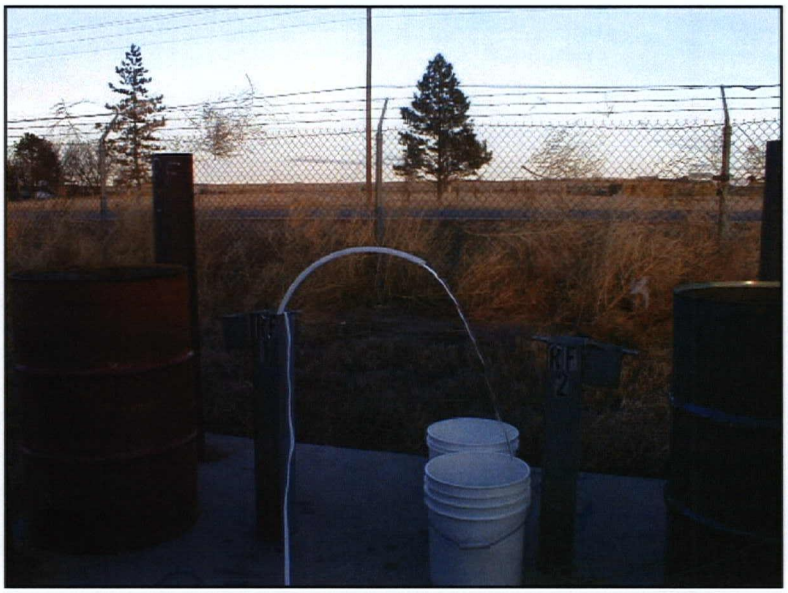
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	START team member purging monitoring well LW-5	8
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NW	PHOTOGRAPHER	Crystal Roberts	01/14/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of monitoring well LW-4	9
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SE	PHOTOGRAPHER	Crystal Roberts	01/14/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of monitoring well RF-1	10
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NE	PHOTOGRAPHER	Crystal Roberts	01/14/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of monitoring well RF-1	11
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NE	PHOTOGRAPHER	Crystal Roberts	01/14/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of monitoring well RF-2	12
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: ENE	PHOTOGRAPHER	Crystal Roberts	01/14/02

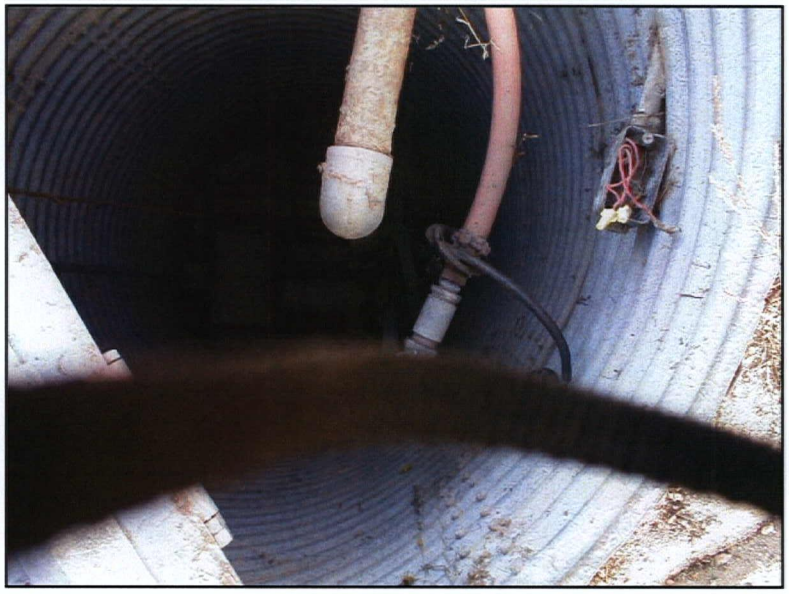
Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of monitoring well RF-3	13
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: WSW	PHOTOGRAPHER	Crystal Roberts	01/14/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of monitoring well M-8	14
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NW	PHOTOGRAPHER	Eric Scott	01/15/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of monitoring well MI-1	15
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Crystal Roberts	01/15/02



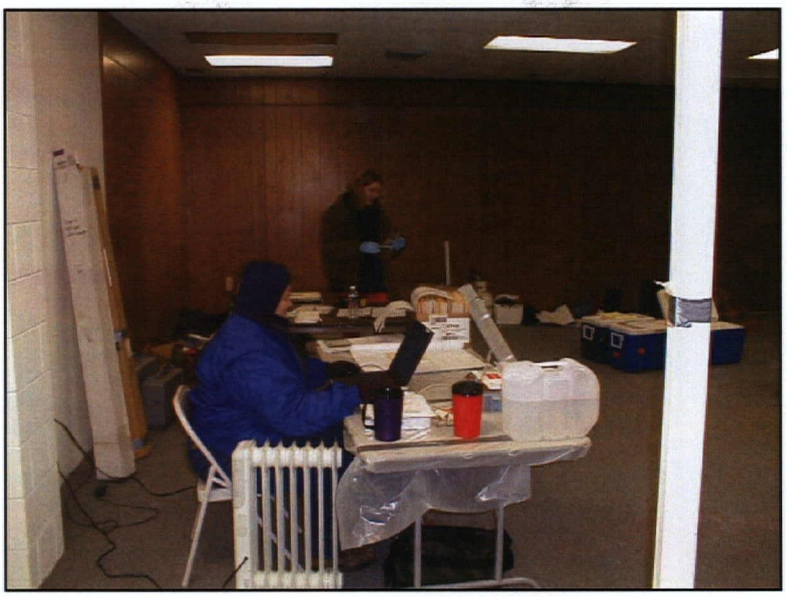
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Monitoring well LW-6, formally used as a water supply well	16
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Down	PHOTOGRAPHER	Crystal Roberts	01/15/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

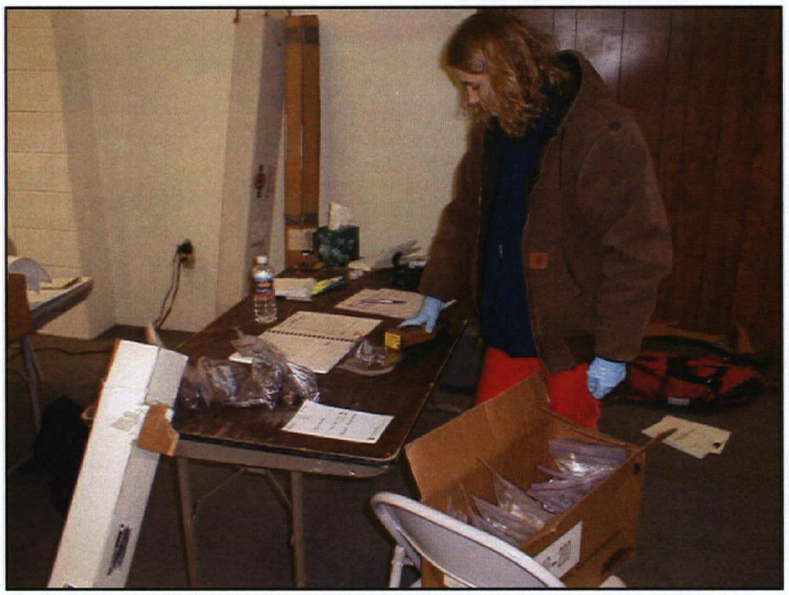
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sample screening and collection area	17
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SE	PHOTOGRAPHER	Jeff Hodge	01/16/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sample screening and collection area	18
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NW	PHOTOGRAPHER	Jeff Hodge	01/16/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska



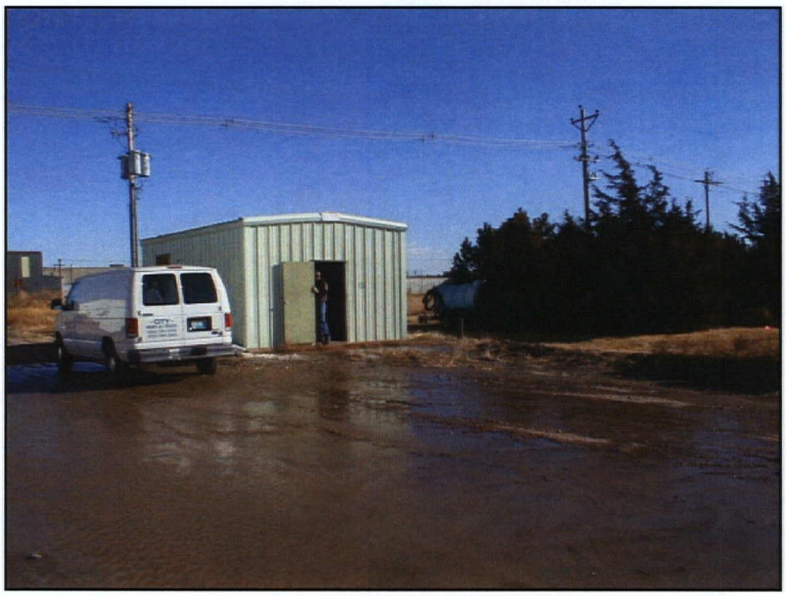
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sample screening and collection area	19
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: E	PHOTOGRAPHER	Jeff Hodge	01/16/02



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sample screening area where X-ray fluorescence unit is used to analyze soil samples for metals	20
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Jeff Hodge	01/16/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	START team member collecting a private well sample	21
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SE	PHOTOGRAPHER	Eric Scott	01/1902



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of Gering municipal well 6	22
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SE	PHOTOGRAPHER	Jeff Hodge	01/25/02

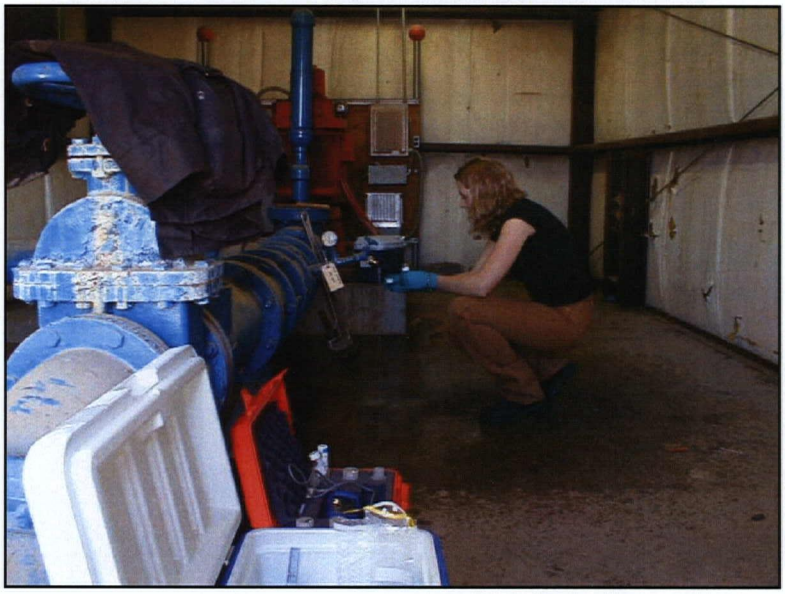
Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of Gering Municipal Well 6	23
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: E	PHOTOGRAPHER	Jeff Hodge	01/25/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	START team member preparing to collect a drinking water sample at municipal well 6	24
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: W	PHOTOGRAPHER	Jeff Hodge	01/21/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	START team member recording water quality parameters at municipal well 6	25
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NE	PHOTOGRAPHER	Jeff Hodge	01/21/02



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	START team member collecting sample at municipal well 6	26
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: E	PHOTOGRAPHER	Jeff Hodge	01/21/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Fire bricks excavated from the bottom of the zinc tank pit. The photograph provides evidence that liquid zinc leaked into the cracks of the bricks.	27
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Down	PHOTOGRAPHER	Jeff Hodge	01/21/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Southwestern corner of the galvanizing building, including the zinc tank pit in the foreground.	28
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: WNW	PHOTOGRAPHER	Jeff Hodge	01/21/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Southeastern corner of the galvanizing building, including the metal finishing dip tanks in the foreground and the beta acid crystals in the background.	29
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: ENE	PHOTOGRAPHER	Jeff Hodge	01/21/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Southeastern corner of the galvanizing building, including the zinc tank pit in the foreground and the beta acid crystals in the background. In center of pit is a dirt ramp laid over plastic sheeting to provide access for the Geoprobe™.	30
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: ENE	PHOTOGRAPHER	Jeff Hodge	01/21/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Southern end of the zinc tank pit. The pit had been back filled and an excavator was used to expose the fire-brick-lined bottom.	31
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: S	PHOTOGRAPHER	Jeff Hodge	01/21/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Dirt ramp built to access the metal finishing dip tanks	32
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: ENE	PHOTOGRAPHER	Jeff Hodge	01/21/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sixteen inch core of concrete and fire bricks in the northern corner of the eastern most metal finishing dip tank	33
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Down	PHOTOGRAPHER	Jeff Hodge	01/21/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sludge in the eastern-most metal finishing dip tank	34
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Down	PHOTOGRAPHER	Jeff Hodge	01/21/02

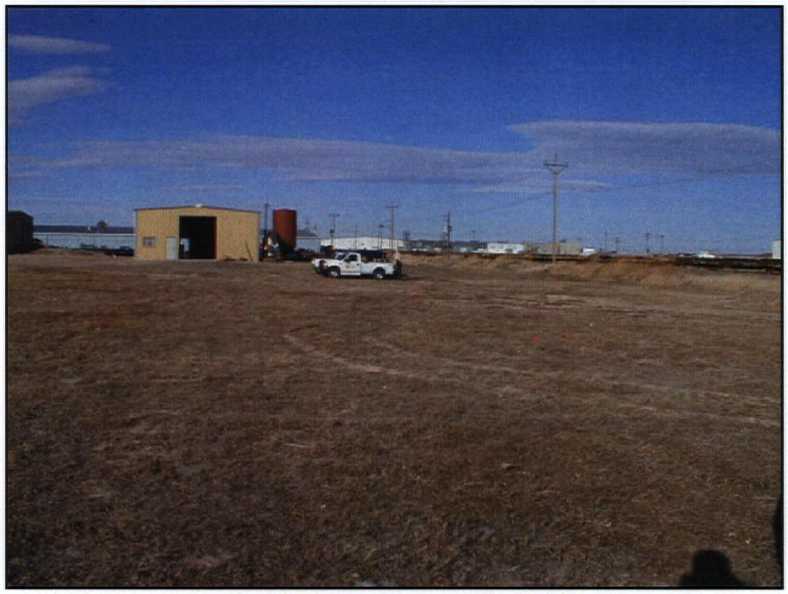
Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sludge in the middle metal finishing dip tank	35
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Down	PHOTOGRAPHER	Jeff Hodge	01/21/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sludge in the western-most metal finishing dip tank	36
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Down	PHOTOGRAPHER	Jeff Hodge	01/21/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Large sacks containing beta acid crystals, with with green material precipitating on the outside of the bags	37
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NE	PHOTOGRAPHER	Jeff Hodge	01/21/02



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Background 3 and 4 soil sample collection locations, located on property adjacent to west side of site, just west of surface impoundment	38
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Jeff Hodge	01/21/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Geoprobe ™ activities at background location 4	39
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Jeff Hodge	01/21/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Geoprobe™ activities at background location 4	40
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NNW	PHOTOGRAPHER	Jeff Hodge	01/21/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Geoprobe ™ activities at background location 4	41
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Down	PHOTOGRAPHER	Jeff Hodge	01/21/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Purging of groundwater at background sample location 4	42
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: W	PHOTOGRAPHER	Jeff Hodge	01/21/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Groundwater sample collection at background sample location 4	43
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: W	PHOTOGRAPHER	Jeff Hodge	01/21/02

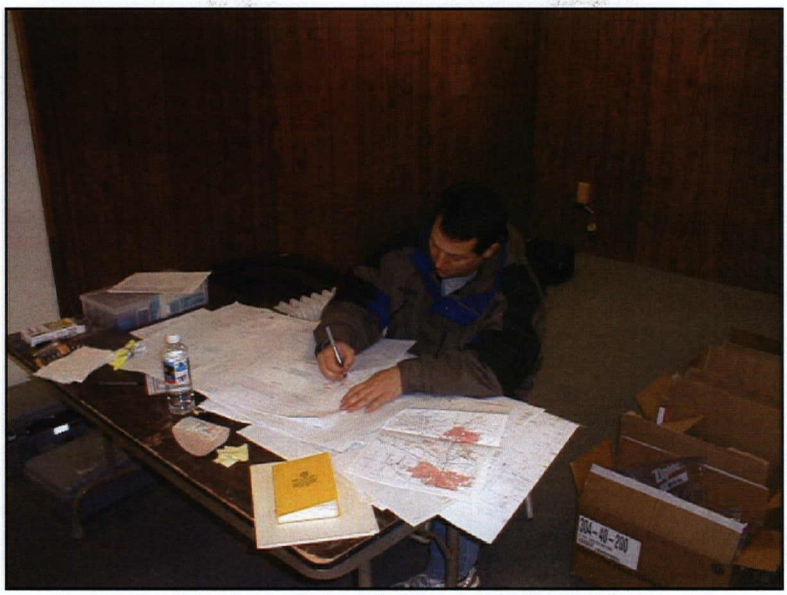
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Concrete coring activities inside the galvanizing building. The sampling locations were moved to areas adjacent to the pits. The proposed locations in the bottom of the sumps could not be cored due to obstructions.	44
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NNW	PHOTOGRAPHER	Jeff Hodge	01/21/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Concrete coring activities inside the galvanizing building	45
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: E	PHOTOGRAPHER	Jeff Hodge	01/21/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Concrete coring activities inside the galvanizing building	46
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: W	PHOTOGRAPHER	Jeff Hodge	01/21/02

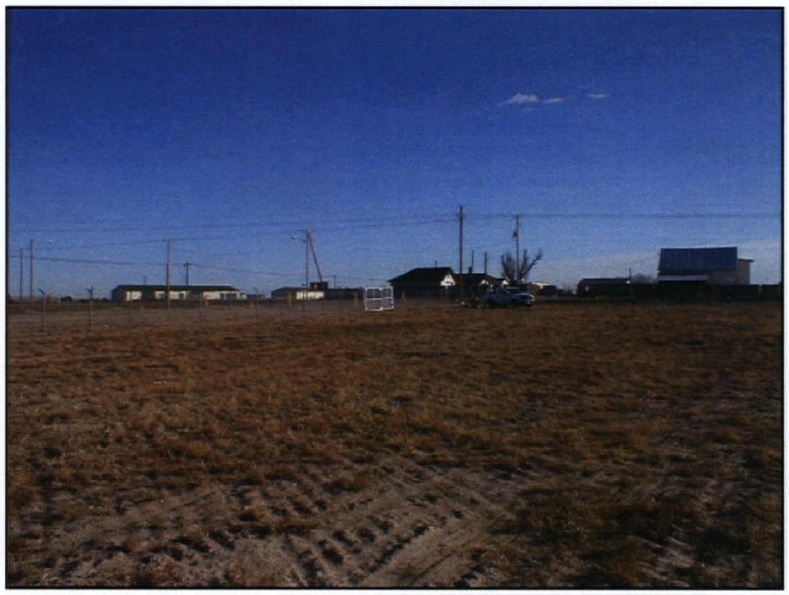
Agromac-Lockwood Operable Unit 2
Gering, Nebraska



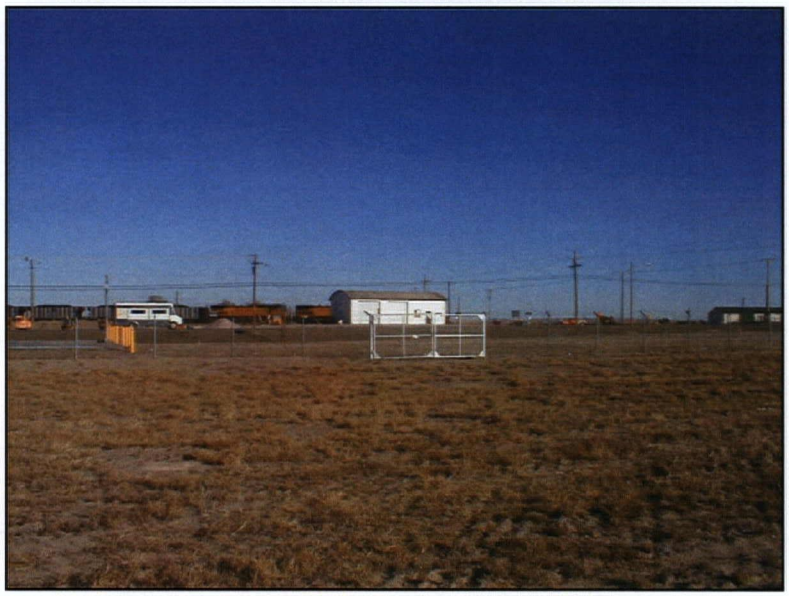
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	START team member mapping sampling activities	47
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NE	PHOTOGRAPHER	Trisha Dealy	01/21/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Jack hammering activities inside the galvanizing building; note the zinc plating splattered on the wall near the zinc dip tanks	48
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NW	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Northeastern corner of the scrap storage area in which the Geoprobe ™ is collecting groundwater sample SA-GGW-1	49
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NE	PHOTOGRAPHER	Jeff Hodge	01/22/02



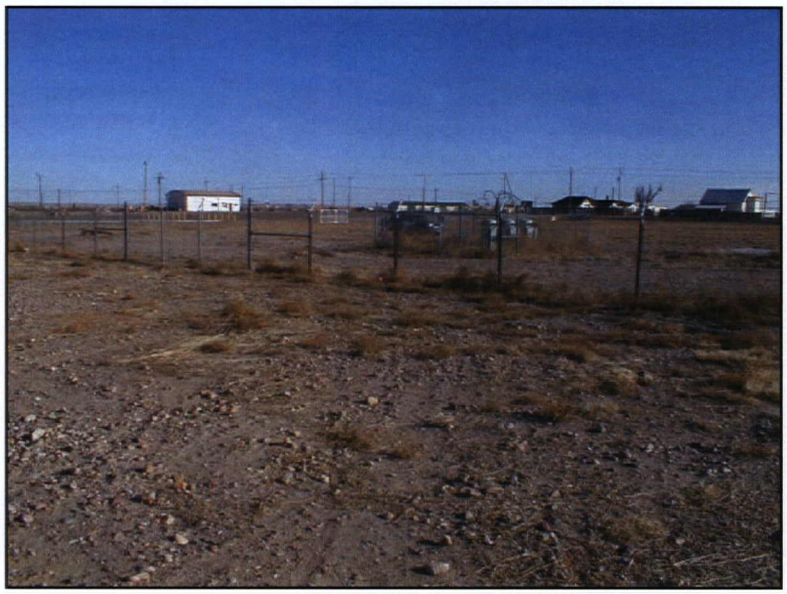
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Private well sample location OS-PW-8, located north of site and Hwy 92	50
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NNE	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	The scrap storage area in the northeastern corner of the facility	51
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sampling points in the scrap metal waste bin area	52
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: W	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sample collection point for soil gas SG-5	53
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NE	PHOTOGRAPHER	Jeff Hodge	01/22/02

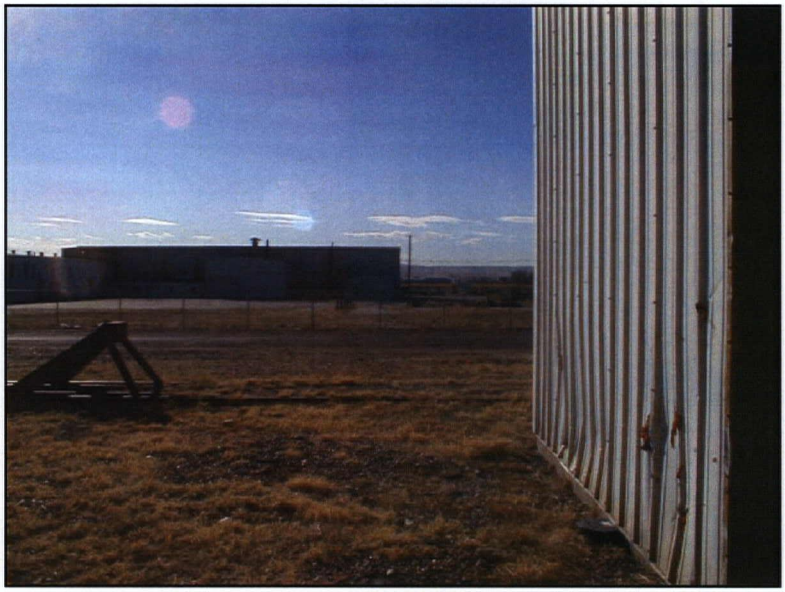
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sampling points in the scrap metal waste bin area	54
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NW	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sample collection point for soil gas SG-10	55
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SSW	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sample collection point for soil gas SG-11	56
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SSE	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sample collection point for soil gas SG-12	57
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: S	PHOTOGRAPHER	Jeff Hodge	01/22/02

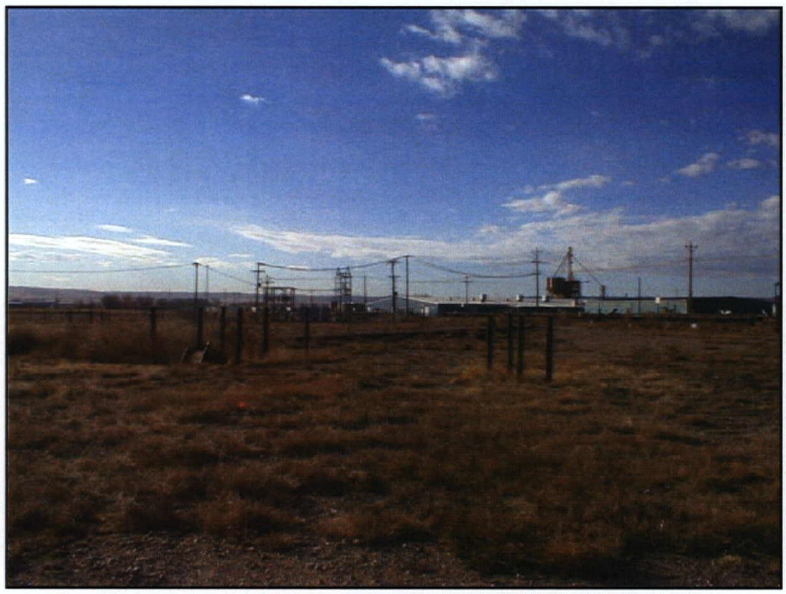
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	hazardous waste storage area B sampling location	58
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Hazardous waste storage area A sampling location	59
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: ESE	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Solvent recycling and paint mixing sampling area inside the concrete block building	60
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Northern portion of the western-most storm water drainage ditch, which includes soil gas sample location SG-20 and soil sample location SWD-S-4	61
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Northern portion of the western-most storm water drainage ditch, which includes soil sample location SWD-S-5	62
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Borrow pit sampling area	63
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SSW	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Southern portion of the eastern-most storm water drainage ditch	64
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Background sample location 2, located on property directly south of site, approximately 10 yards south of D Street, half way along the southern border of the site	65
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: S	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Background sample location 2, located on property directly south of site, approximately 10 yards south of D Street, half way along the southern border of the site	66
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Jeff Hodge	01/22/02

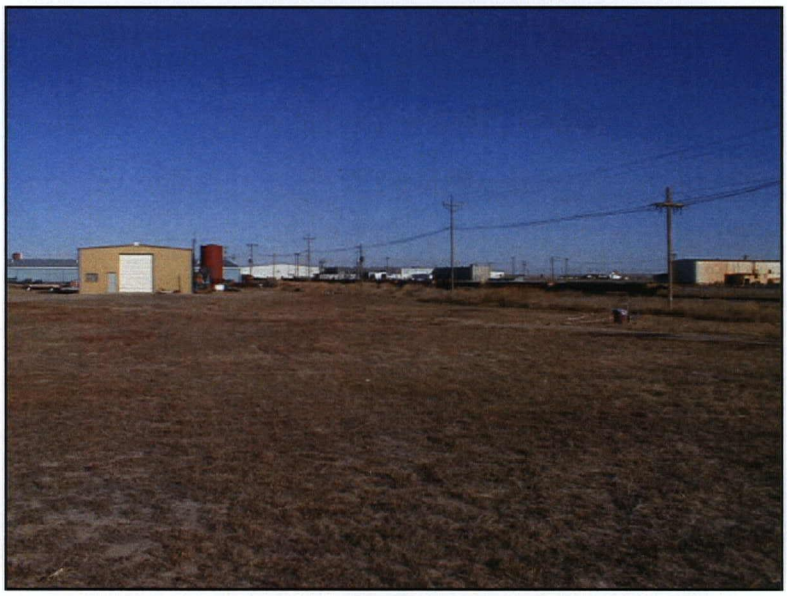
Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Southern portion of western-most storm water drainage ditch	67
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Background sample location 1, located directly south of surface impoundment area, approximately 10 yards south of D Street	68
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: S	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Background sample location 1, located directly south of surface impoundment area, approximately 10 yards south of D Street	69
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NNE	PHOTOGRAPHER	Jeff Hodge	01/22/02



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Background sample locations 3 and 4, located on property adjacent to site directly west of the surface impoundment	70
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Material dumped outside of fence at southwestern corner of surface impoundment	71
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: W	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Material dumped outside of fence at southwestern corner of surface impoundment	72
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: W	PHOTOGRAPHER	Jeff Hodge	01/22/02

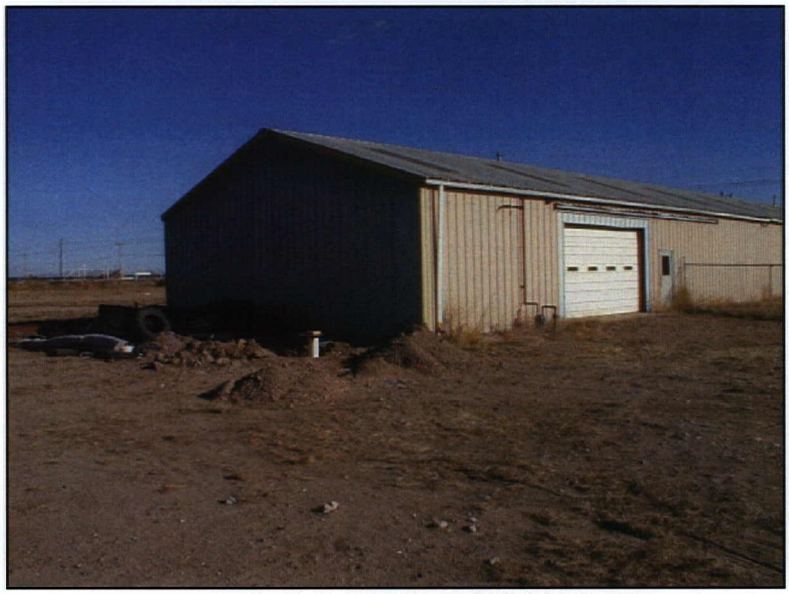
Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Material dumped outside of fence at southwestern corner of surface impoundment	73
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: E	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Monitoring well M-3 and drum used to contain purge water	74
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	The septic tank just west of the salvage building	75
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: E	PHOTOGRAPHER	Jeff Hodge	01/22/02



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sample collection area around the septic tank just west of salvage building	76
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NE	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	A grid that was sampled in the used oil and empty barrel storage area	77
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Jeff Hodge	01/22/02

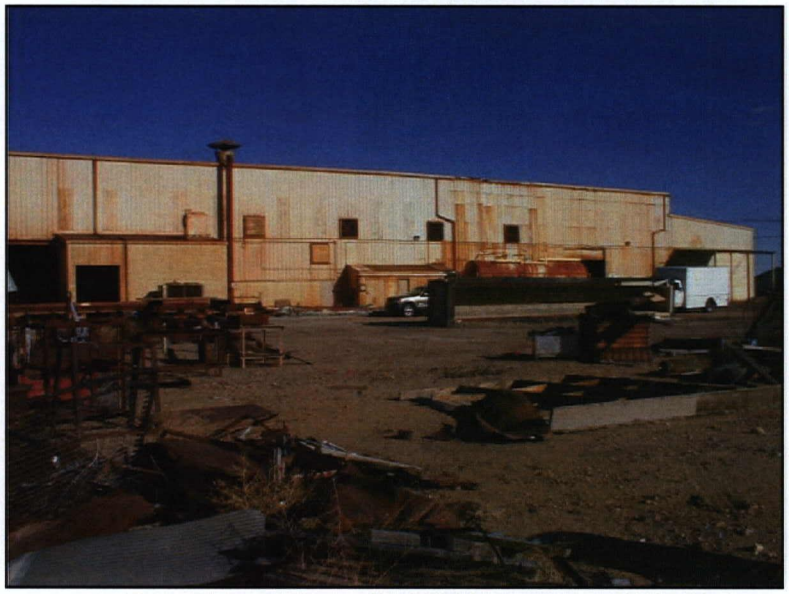
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	A grid that was sampled in the used oil and empty barrel storage area	78
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: S	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Hazardous waste storage area C sampling locations	79
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	The sump south of hazardous waste storage area C	80
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Hazardous waste storage area C sampling locations	81
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NE	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Hazardous waste storage area D sampling grid	82
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Spent acid holding pit sampling area, Geoprobe™ sampling locations being backfilled with granular bentonite	83
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: E	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Spent acid holding pit sampling area	84
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: E	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Central portion of the western-most storm water drainage ditch, which includes soil gas sample location SG-26 and soil sample location SWD-S-6	85
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NW	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Southern portion of the western-most storm water drainage ditch	86
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: S	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Northern portion of the eastern-most storm water drainage ditch	87
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Soil and soil gas sampling area on the eastern side of the surface impoundment	88
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: W	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Southern portion of the eastern-most storm water drainage ditch	89
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: S	PHOTOGRAPHER	Jeff Hodge	01/22/02

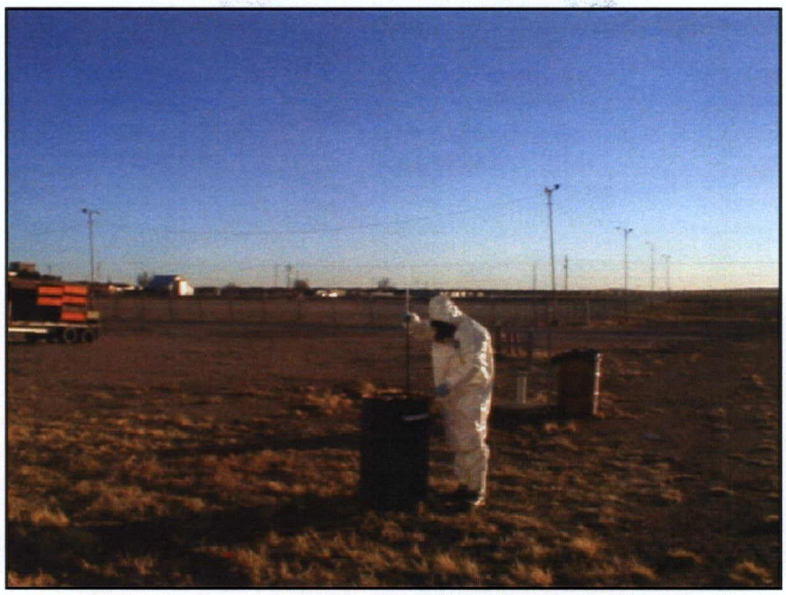
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Area north and east of the surface impoundment from which the Geoprobe ™ groundwater samples were collected	90
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SE	PHOTOGRAPHER	Jeff Hodge	01/22/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

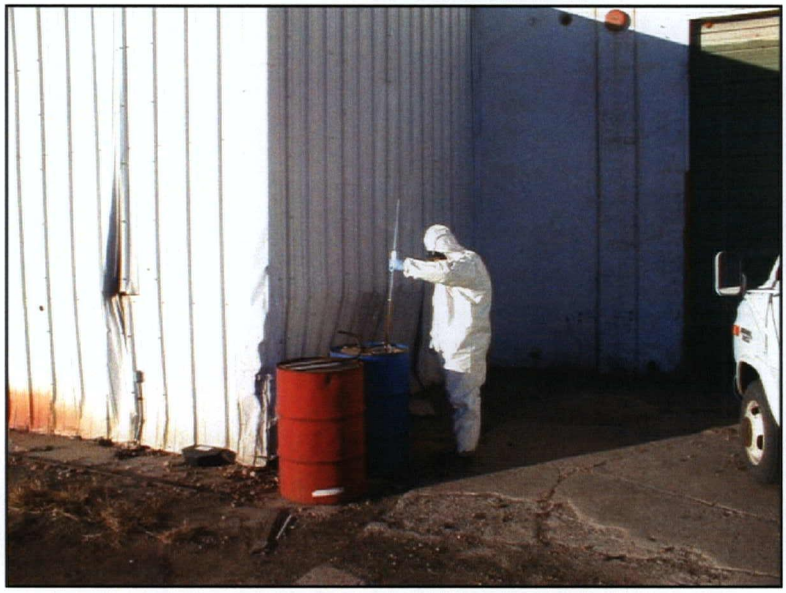
TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Geoprobe ™ sampling activities inside of the galvanizing building	91
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: W	PHOTOGRAPHER	Jeff Hodge	01/22/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Screening of drum 1 located in the southeastern corner of the former assembly area	92
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SE	PHOTOGRAPHER	Ben Wolfe	01/24/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sampling of abandon drum 1 located in the southeastern corner of the former assembly area	93
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SE	PHOTOGRAPHER	Ben Wolfe	01/24/02



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sampling of drum 2 located just outside of the tool and die room on eastern side of the manufacturing building	94
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SW	PHOTOGRAPHER	Ben Wolfe	01/24/02

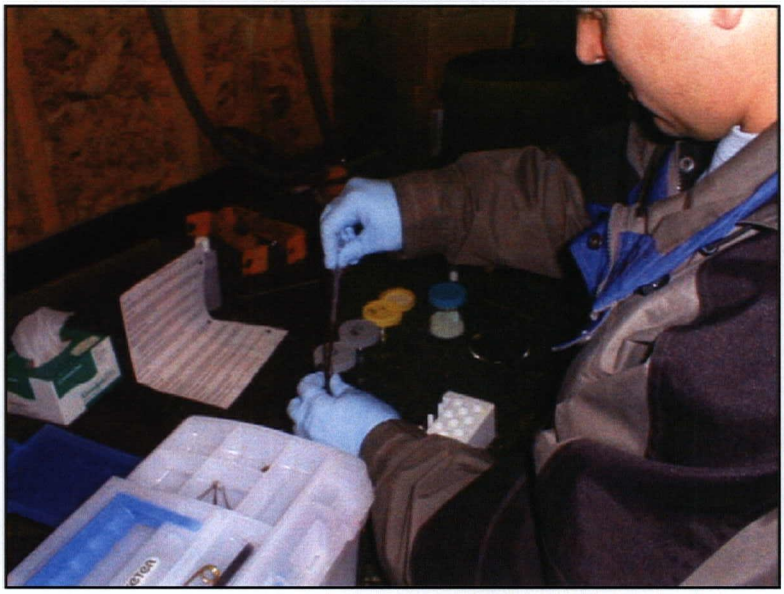
Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Screening of drum 3 located on eastern side of hazardous waste storage area C	95
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: SE	PHOTOGRAPHER	Ben Wolfe	01/24/02

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	Sampling of drum 4 located in a storage shed, east of the City of Gering electrical substation	96
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: S	PHOTOGRAPHER	Ben Wolfe	01/24/02

Agromac-Lockwood Operable Unit 2
Gering, Nebraska

TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	On-site hazardous categorization activities	97
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Ben Wolfe	01/24/02



TETRA TECH PROJECT NO. G9011.01.0008.10	DESCRIPTION	On-site hazardous categorization activities	98
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: N	PHOTOGRAPHER	Ben Wolfe	01/24/02

APPENDIX D

GLOBAL POSITIONING SYSTEM DATA

Summary of GPS names and Coordinates
Agromac-Lockwood Site
Gering, NE
January, 2002

Comment	GPS_Date	Feat_Name	Unfilt_Pos	Horz_Prec	Latitude	Longitude	Point_ID
[illegible]	1/23/2002	Point_ge	30		41.820721723	-103.637753746	1
[illegible]	1/23/2002	Point_ge	31		41.820630294	-103.638085291	2
SG 2	1/23/2002	Point_ge	30		41.817669324	-103.637019901	3
SG 3	1/23/2002	Point_ge	31		41.816119433	-103.638069355	4
SG 4	1/23/2002	Point_ge	31		41.815957499	-103.638045952	5
SG 31	1/23/2002	Point_ge	46		41.815050037	-103.636270213	6
SG 6	1/23/2002	Point_ge	31		41.817757145	-103.638355050	7
SG 7	1/23/2002	Point_ge	30		41.817567353	-103.638543476	8
SG 8	1/23/2002	Point_ge	31		41.816992432	-103.638360909	9
SG 9	1/23/2002	Point_ge	30		41.816981434	-103.638503673	10
SG 10	1/23/2002	Point_ge	31		41.819970787	-103.638655780	11
SG 11	1/23/2002	Point_ge	30		41.819334095	-103.638904857	12
SG 12	1/23/2002	Point_ge	33		41.818906664	-103.638853909	13
SG 13	1/23/2002	Point_ge	30		41.817995142	-103.639525265	14
SG 14	1/23/2002	Point_ge	30		41.819029303	-103.639428899	15
SG 15	1/23/2002	Point_ge	32		41.819104924	-103.639790191	16
SG 16	1/23/2002	Point_ge	32		41.819381830	-103.639973994	17
SG 17	1/23/2002	Point_ge	32		41.819820309	-103.640042998	18
SG 22	1/23/2002	Point_ge	36		41.819833836	-103.640158457	19
SG 18	1/23/2002	Point_ge	32		41.819335243	-103.640051530	20
SG 19	1/23/2002	Point_ge	30		41.819081071	-103.640220539	21
SG 20	1/23/2002	Point_ge	30		41.818789538	-103.640215248	22
SG 21	1/23/2002	Point_ge	33		41.817601809	-103.640108792	23
SG 23	1/23/2002	Point_ge	31		41.819086017	-103.640384435	24
SG 24	1/23/2002	Point_ge	30		41.819004178	-103.640623127	25
SG 25	1/23/2002	Point_ge	30		41.818489918	-103.640644432	26
SG 26	1/23/2002	Point_ge	31		41.817581850	-103.640652603	27
[illegible]	1/23/2002	Point_ge	30		41.815362401	-103.639960225	28
[illegible]	1/23/2002	Point_ge	30		41.815018024	-103.639968270	29
SG 27	1/23/2002	Point_ge	30		41.821695789	-103.640663765	30
SG 30	1/23/2002	Point_ge	30		41.815195409	-103.640666056	31
MW LW 1	1/15/2002	Point_ge	80	4.181	41.821254726	-103.639534038	32
MW LW 6	1/15/2002	Point_ge	31	5.325	41.821054153	-103.638065329	33
RF 5	1/15/2002	Point_ge	31	5.306	41.820611670	-103.638075144	34
MW LW 8	1/15/2002	Point_ge	30	5.525	41.820307478	-103.638479973	35
MW LW 3	1/15/2002	Point_ge	31	5.405	41.819552376	-103.638513244	36
MW LW 7	1/15/2002	Point_ge	31	5.613	41.819633349	-103.637955500	37
MW LW 4	1/15/2002	Point_ge	30	4.489	41.817842100	-103.637228060	38
RF 1	1/15/2002	Point_ge	30	4.751	41.816116176	-103.636304889	39
RF 2	1/15/2002	Point_ge	31	6.469	41.816096394	-103.636315397	40
RF 3	1/15/2002	Point_ge	32	4.634	41.816989900	-103.638320820	41
MW LW 2	1/15/2002	Point_ge	31	4.292	41.819033288	-103.639915583	42
RF 4	1/15/2002	Point_ge	30	4.714	41.819120483	-103.639982200	43
MW LW 5	1/15/2002	Point_ge	31	4.264	41.819401682	-103.640590524	44
MW M 5	1/15/2002	Point_ge	30	4.230	41.816231462	-103.639910766	45
MW M 7	1/15/2002	Point_ge	30	4.227	41.816012385	-103.640597008	46
MW M 4	1/15/2002	Point_ge	32	4.402	41.815683450	-103.639841050	47
MW M 1	1/15/2002	Point_ge	30	4.086	41.815260811	-103.639882342	48
MW MI 1	1/15/2002	Point_ge	30	4.123	41.815253191	-103.639973013	49
MW M 2	1/15/2002	Point_ge	30	3.844	41.815014013	-103.639484675	50
MW M 3	1/15/2002	Point_ge	30	4.073	41.814911509	-103.640082429	51
MW M 6	1/15/2002	Point_ge	40	4.150	41.815168822	-103.640563152	52
MW MI 2	1/15/2002	Point_ge	30	4.428	41.815231798	-103.640556749	53
MW M 8	1/15/2002	Point_ge	31	4.087	41.815220509	-103.641084146	54
	1/16/2002	Point_ge	38	4.570	41.814948178	-103.640620891	55
[illegible]MPOUNDMENT	1/16/2002	Point_ge	33	4.340	41.815707921	-103.640628714	56
[illegible]SUB	1/16/2002	Point_ge	35	4.271	41.817649437	-103.640670043	57
NW SUB	1/16/2002	Point_ge	31	5.564	41.817824615	-103.640683490	58
MANUFAC BLDG	1/16/2002	Point_ge	36	5.915	41.821134077	-103.640734915	60
D	1/16/2002	Point_ge	36	5.866	41.821458125	-103.639443050	61
NE OFFICE	1/16/2002	Point_ge	32	5.992	41.821473810	-103.638527791	62
NE SITE	1/16/2002	Point_ge	31	4.886	41.821416472	-103.636393972	63

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Comment	GPS_Date	Feat_Name	Unfilt_Pos	Horz_Prec	Latitude	Longitude	Point_ID
N[illegible]AURDHOUSE	1/16/2002	Point_ge	39	4.472	41.820381110	-103.637990384	64
NW SSA	1/16/2002	Point_ge	31	4.143	41.821066042	-103.638042668	65
NE SSA	1/16/2002	Point_ge	30	4.110	41.821029873	-103.637183513	66
SE SSA	1/16/2002	Point_ge	30	4.905	41.820530468	-103.637154257	67
SW SSA	1/16/2002	Point_ge	30	6.445	41.820527472	-103.638023267	69
SE OFFICE	1/16/2002	Point_ge	30	4.561	41.821137025	-103.638532978	70
MANUFAC BLDG	1/16/2002	Point_ge	31	4.090	41.819542734	-103.638704525	71
MANUFAC BLDG	1/16/2002	Point_ge	30	4.409	41.818857999	-103.638965506	72
MANUFAC BLDG	1/16/2002	Point_ge	31	5.907	41.818874537	-103.639116927	73
MANUFAC BLDG	1/16/2002	Point_ge	32	5.894	41.819416896	-103.639962170	74
SE SR	1/16/2002	Point_ge	31	5.966	41.819814304	-103.640056356	75
SW SR	1/16/2002	Point_ge	31	5.869	41.819803287	-103.640179322	76
NE RPS	1/16/2002	Point_ge	30	5.827	41.819131759	-103.639758805	77
SE RPS	1/16/2002	Point_ge	30	4.296	41.818843041	-103.639757077	78
SW RPS	1/16/2002	Point_ge	31	4.107	41.818850644	-103.640496534	79
NW RPS	1/16/2002	Point_ge	31	4.110	41.819112687	-103.640522941	80
NE SUB	1/16/2002	Point_ge	30	7.582	41.817847528	-103.640214828	81
SE SUB	1/16/2002	Point_ge	32	4.776	41.817651815	-103.640202923	82
NE IMPOUNDMENT	1/16/2002	Point_ge	32	4.710	41.815706710	-103.639987170	84
SE IMPOUNDMENT	1/16/2002	Point_ge	31	5.017	41.814969430	-103.639998349	85
SW HWSAD	1/16/2002	Point_ge	31	4.619	41.815714446	-103.638288546	87
SE HWSAD	1/16/2002	Point_ge	31	4.608	41.815711723	-103.637924406	88
NE HWSAD	1/16/2002	Point_ge	31	4.603	41.816267754	-103.637909918	89
NW HWSAD	1/16/2002	Point_ge	31	4.857	41.816265663	-103.638285417	90
NE HWSAC	1/16/2002	Point_ge	31	5.486	41.817042142	-103.638260450	91
NW HWSAC	1/16/2002	Point_ge	31	5.461	41.817042634	-103.638521764	92
SW HWSAC	1/16/2002	Point_ge	30	5.429	41.816930344	-103.638530890	93
[illegible]WSAC	1/16/2002	Point_ge	30	5.400	41.816932348	-103.638259381	94
[illegible]AP	1/16/2002	Point_ge	31	5.336	41.817255916	-103.638394351	95
SE SAP	1/16/2002	Point_ge	31	5.315	41.817267908	-103.638194783	96
NE SAP	1/16/2002	Point_ge	31	5.299	41.817286151	-103.638191919	97
NW SAP	1/16/2002	Point_ge	31	5.278	41.817292126	-103.638398182	98
SW OSEDS	1/16/2002	Point_ge	31	5.210	41.815022289	-103.636770140	99
NE OSEDS	1/16/2002	Point_ge	31	5.367	41.817141561	-103.636282861	100
NW OSEDS	1/16/2002	Point_ge	31	4.921	41.817096995	-103.636814696	101
SW SALV BLDG	1/16/2002	Point_ge	31	6.061	41.817703130	-103.636943730	103
NW SALV BLDG	1/16/2002	Point_ge	31	5.016	41.817823899	-103.636948943	104
SE SITE	1/16/2002	Point_ge	31	4.344	41.815032060	-103.636228986	105
NE SALV BLDG	1/16/2002	Point_ge	31	5.274	41.817829715	-103.636421705	106
GALV BLDG	1/16/2002	Point_ge	31	5.784	41.818080752	-103.637770333	107
GALV BLDG	1/16/2002	Point_ge	31	4.092	41.818069548	-103.638058712	108
GALV BLDG	1/16/2002	Point_ge	30	5.896	41.817567178	-103.638189814	109
GALV BLDG	1/16/2002	Point_ge	31	4.859	41.817656758	-103.638191340	110
GALV BLDG	1/16/2002	Point_ge	31	4.095	41.817614273	-103.638472665	111
GALV BLDG	1/16/2002	Point_ge	30	6.338	41.817584579	-103.638646379	112
GALV BLDG	1/16/2002	Point_ge	31	3.574	41.817602022	-103.638782037	113
GALV BLDG	1/16/2002	Point_ge	30	4.104	41.817500110	-103.638789587	114
GALV BLDG	1/16/2002	Point_ge	30	4.413	41.817332829	-103.638796667	115
GALV BLDG	1/16/2002	Point_ge	31	5.719	41.817343448	-103.637739530	116
GB GGW 5	1/23/2002	Point_ge	30		41.817921674	-103.638159900	117
GB GGW 4	1/23/2002	Point_ge	30		41.817255049	-103.638463914	118
SI GGW 1	1/23/2002	Point_ge	31		41.816803826	-103.640355510	119
SI GGW 2	1/23/2002	Point_ge	32		41.816568206	-103.639862769	120
SI GGW 3	1/23/2002	Point_ge	30		41.816272706	-103.639394844	121
SI GGW 4	1/23/2002	Point_ge	30		41.815743484	-103.639215182	122
[illegible]GW 1	1/23/2002	Point_ge	30		41.821340735	-103.636515947	123
BACKGROUND 2	1/23/2002	Point_ge	32		41.814412156	-103.638908677	124
BACKGROUND 1	1/23/2002	Point_ge	42		41.814322732	-103.640508923	125
BACKGROUND 3	1/23/2002	Point_ge	30		41.815105411	-103.641290857	126
BACKGROUND 4	1/23/2002	Point_ge	30		41.815499972	-103.641212895	127
BAQUET WELL	1/21/2002	Point_ge	32		41.811626509	-103.636765714	128
OS PW 7	1/21/2002	Point_ge	39		41.817749211	-103.645195629	129

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Comment	GPS_Date	Feat_Name	Unfilt_Pos	Horz_Prec	Latitude	Longitude	Point_ID
[illegible]UW 1	1/21/2002	Point_ge	36		41.819578437	-103.641280916	130
MURPHYS TRACTOR	1/23/2002	Point_ge	41		41.822292801	-103.636706435	131
ROBISON WELL	1/19/2002	Point_ge	32	5.627	41.817201130	-103.635476691	132
ENGLEMAN WELL	1/20/2002	Point_ge	31	5.597	41.830931984	-103.635664638	133
HENKEL WELL	1/20/2002	Point_ge	32	8.815	41.825347834	-103.639853375	134
HENKEL IRRIG 1	1/20/2002	Point_ge	32	3.628	41.824792301	-103.639645809	135
HENKEL IRRIG 2	1/20/2002	Point_ge	31	5.045	41.825211462	-103.640530202	136
HENKEL IRRIG 3	1/20/2002	Point_ge	32	5.525	41.825399696	-103.640999789	137
HIGEL WELL	1/20/2002	Point_ge	31	5.262	41.815633857	-103.635585988	138
HIGEL RENTAL	1/20/2002	Point_ge	31	5.237	41.815215921	-103.635809033	139
ANDERSEN WELL	1/20/2002	Point_ge	31	5.177	41.815898443	-103.631128683	140
GITSCHEL WELL	1/20/2002	Point_ge	31	5.241	41.815923557	-103.630469145	141
CHRISMAN WELL	1/20/2002	Point_ge	31	4.052	41.809397449	-103.639840095	142
SA A 1	1/19/2002	Point_ge	30		41.820989213	-103.637245861	143
SA A 2	1/19/2002	Point_ge	30		41.820868054	-103.637233331	144
SA A 3	1/19/2002	Point_ge	30		41.820738966	-103.637234452	145
SA A 4	1/19/2002	Point_ge	30		41.820619475	-103.637251924	146
SA B 1	1/19/2002	Point_ge	30		41.821011482	-103.637430971	147
SA B 2	1/19/2002	Point_ge	30		41.820885566	-103.637429607	148
SA B 3	1/19/2002	Point_ge	31		41.820746594	-103.637414525	149
SA B 4	1/19/2002	Point_ge	33		41.820608612	-103.637409673	150
SA C 1	1/19/2002	Point_ge	30		41.821031129	-103.637592966	151
SA C 2	1/19/2002	Point_ge	30		41.820860065	-103.637621674	152
SA C 3	1/19/2002	Point_ge	32		41.820737783	-103.637617750	153
SA C 4	1/19/2002	Point_ge	30		41.820587008	-103.637620298	154
SA D 1	1/19/2002	Point_ge	30		41.821005101	-103.637758300	155
SA D 2	1/19/2002	Point_ge	30		41.820878742	-103.637757584	156
[illegible]3	1/19/2002	Point_ge	31		41.820718797	-103.637754457	157
[illegible]4	1/19/2002	Point_ge	33		41.820583753	-103.637751017	158
SA E 1	1/19/2002	Point_ge	46		41.820926835	-103.637945992	159
SA E 2	1/19/2002	Point_ge	32		41.820834256	-103.637951060	160
SA E 3	1/19/2002	Point_ge	30		41.820715230	-103.637948904	161
SA E 4	1/19/2002	Point_ge	31		41.820583995	-103.637945427	162
SMP 1	1/19/2002	Point_ge	30		41.820512934	-103.637723009	163
SMP 2	1/19/2002	Point_ge	30		41.820524993	-103.637811392	164
SMP 3	1/19/2002	Point_ge	30		41.820665182	-103.637859069	165
SMP 4	1/19/2002	Point_ge	30		41.820528856	-103.637882245	166
SMP 5	1/19/2002	Point_ge	30		41.820486483	-103.637963241	167
SMP 6	1/19/2002	Point_ge	31		41.820520707	-103.638018821	168
SMP 7	1/19/2002	Point_ge	30		41.820613353	-103.638030342	169
SMP 8	1/19/2002	Point_ge	30		41.820745252	-103.637940706	170
SR 4	1/19/2002	Point_ge	31		41.819859503	-103.640182821	171
SR 3	1/19/2002	Point_ge	30		41.819831480	-103.640156008	172
SR 2	1/19/2002	Point_ge	30		41.819839974	-103.640083706	173
SR 1	1/19/2002	Point_ge	30		41.819878518	-103.640029710	174
HWSA 3	1/19/2002	Point_ge	30		41.819372802	-103.640089291	175
HWSA 2	1/19/2002	Point_ge	31		41.819345273	-103.640039449	176
HWSA 1	1/19/2002	Point_ge	30		41.819370060	-103.640007411	177
HWSA 4	1/19/2002	Point_ge	42		41.819388648	-103.640042104	178
HWSB 2	1/19/2002	Point_ge	33		41.819020300	-103.639882910	179
HWSB 1	1/19/2002	Point_ge	30		41.819080523	-103.639786753	180
RPS A 1	1/19/2002	Point_ge	30		41.819093823	-103.639876278	181
RPS B 1	1/19/2002	Point_ge	30		41.819075819	-103.640089179	182
RPS C 1	1/19/2002	Point_ge	39		41.819098873	-103.640278464	183
RPS D 1	1/19/2002	Point_ge	30		41.819079789	-103.640449984	184
[illegible]D 2	1/19/2002	Point_ge	30		41.818951696	-103.640450021	185
RPS C 2	1/19/2002	Point_ge	32		41.818974607	-103.640279579	186
RPS B 2	1/19/2002	Point_ge	30		41.818965901	-103.640090018	187
RPS A 2	1/19/2002	Point_ge	31		41.818971961	-103.639926898	188
SWD 4	1/19/2002	Point_ge	30		41.818837817	-103.640213795	189
SWD 5	1/19/2002	Point_ge	30		41.818418183	-103.640187908	190
SWD 1	1/19/2002	Point_ge	30		41.816692569	-103.639200723	191

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Comment	GPS_Date	Feat_Name	Unfilt_Pos	Horz_Prec	Latitude	Longitude	Point_ID
S[illegible]	1/19/2002	Point_ge	30		41.815491776	-103.639120433	192
SWD 7	1/19/2002	Point_ge	30		41.816748628	-103.640629978	193
SWD 6	1/19/2002	Point_ge	31		41.817606895	-103.640640771	194
SWD 8	1/19/2002	Point_ge	31		41.814729793	-103.640583946	195
SWD 3	1/19/2002	Point_ge	30		41.814755734	-103.639093215	196
HWSB 3	1/23/2002	Point_ge	32		41.819052563	-103.640011525	197
HWSB 4	1/23/2002	Point_ge	31		41.819115357	-103.639901851	198
HWSC 1	1/23/2002	Point_ge	31		41.817012604	-103.638302896	199
HWSC 2	1/23/2002	Point_ge	31		41.816974476	-103.638370899	200
HWSC 3	1/23/2002	Point_ge	30		41.816935775	-103.638449545	201
HWSC 4	1/23/2002	Point_ge	47		41.816987413	-103.638581377	202
HWSC 5	1/23/2002	Point_ge	30		41.817058066	-103.638488589	203
HWSC 6	1/23/2002	Point_ge	30		41.817047875	-103.638382325	204
HWSC 7	1/23/2002	Point_ge	30		41.817005750	-103.638387393	205
HWSC 8	1/23/2002	Point_ge	30		41.816995911	-103.638506622	206
HWSC 9	1/23/2002	Point_ge	30		41.817181111	-103.638427739	207
SAP 1	1/23/2002	Point_ge	30		41.817291610	-103.638216800	208
SAP 2	1/23/2002	Point_ge	30		41.817317974	-103.638353702	209
SAP 3	1/23/2002	Point_ge	30		41.817256332	-103.638404568	210
SAP 4	1/23/2002	Point_ge	30		41.817271287	-103.638471978	211
BA 1	1/22/2002	Point_ge	31		41.818001275	-103.636215378	212
BA 2	1/22/2002	Point_ge	30		41.817994624	-103.636260033	213
BA 3	1/22/2002	Point_ge	30		41.818083403	-103.636234437	214
OSEDS A 1	1/22/2002	Point_ge	30		41.817051907	-103.636315337	215
OSEDS A 2	1/22/2002	Point_ge	32		41.816862023	-103.636325138	216
OSDS A 3	1/22/2002	Point_ge	30		41.816758557	-103.636322844	217
OSDS A 4	1/22/2002	Point_ge	32		41.816630752	-103.636320212	218
O[illegible] A 5	1/22/2002	Point_ge	30		41.816494069	-103.636320671	219
O[illegible] A 6	1/22/2002	Point_ge	30		41.816331154	-103.636312506	220
OSDS A 7	1/22/2002	Point_ge	30		41.816215172	-103.636309207	221
OSDS A 8	1/22/2002	Point_ge	31		41.816070880	-103.636302949	222
OSDS A 9	1/22/2002	Point_ge	30		41.815933848	-103.636299931	223
OSDS A 10	1/22/2002	Point_ge	31		41.815789616	-103.636304890	224
OSDS A 11	1/22/2002	Point_ge	30		41.815661035	-103.636304176	225
OSDS A 12	1/22/2002	Point_ge	30		41.815530689	-103.636314903	226
OSDS A 13	1/22/2002	Point_ge	30		41.815397144	-103.636316211	227
OSDS A 14	1/22/2002	Point_ge	30		41.815248241	-103.636296911	228
OSDS A 15	1/22/2002	Point_ge	62		41.815078227	-103.636302964	229
OSDS B 1	1/22/2002	Point_ge	42		41.817039169	-103.636581604	230
OSDS B 2	1/22/2002	Point_ge	30		41.816879045	-103.636557039	231
OSDS B 3	1/22/2002	Point_ge	31		41.816754821	-103.636575198	232
OSDS B 4	1/22/2002	Point_ge	51		41.816595947	-103.636539106	233
OSDS B 5	1/22/2002	Point_ge	30		41.816459318	-103.636533992	234
OSDS B 6	1/22/2002	Point_ge	31		41.816294675	-103.636523586	235
OSDS B 7	1/22/2002	Point_ge	42		41.816171862	-103.636528886	236
OSDS B 8	1/22/2002	Point_ge	31		41.816021693	-103.636509755	237
OSDS B 9	1/22/2002	Point_ge	30		41.815899844	-103.636499678	238
OSDS B 10	1/22/2002	Point_ge	33		41.815758689	-103.636492952	239
OSDS B 11	1/22/2002	Point_ge	30		41.815628018	-103.636494780	240
OSDS B 12	1/22/2002	Point_ge	31		41.815480559	-103.636493112	241
OSDS B 13	1/22/2002	Point_ge	30		41.815335922	-103.636491116	242
OSDS B 14	1/22/2002	Point_ge	30		41.815207260	-103.636494696	243
OSDS B 15	1/22/2002	Point_ge	31		41.815079773	-103.636485008	244
OSDS C 1	1/22/2002	Point_ge	46		41.817009748	-103.636733877	245
OSDS C 2	1/22/2002	Point_ge	30		41.816875060	-103.636723067	246
[illegible] C 3	1/22/2002	Point_ge	32		41.816735288	-103.636711330	247
OSDS C 4	1/22/2002	Point_ge	30		41.816602238	-103.636704556	248
OSDS C 5	1/22/2002	Point_ge	44		41.816472264	-103.636706109	249
OSDS C 6	1/22/2002	Point_ge	32		41.816328793	-103.636708606	250
OSDS C 7	1/22/2002	Point_ge	30		41.816190175	-103.636707237	251
OSDS C 8	1/22/2002	Point_ge	33		41.816063927	-103.636706079	252
OSDS C 9	1/22/2002	Point_ge	30		41.815917183	-103.636700280	253

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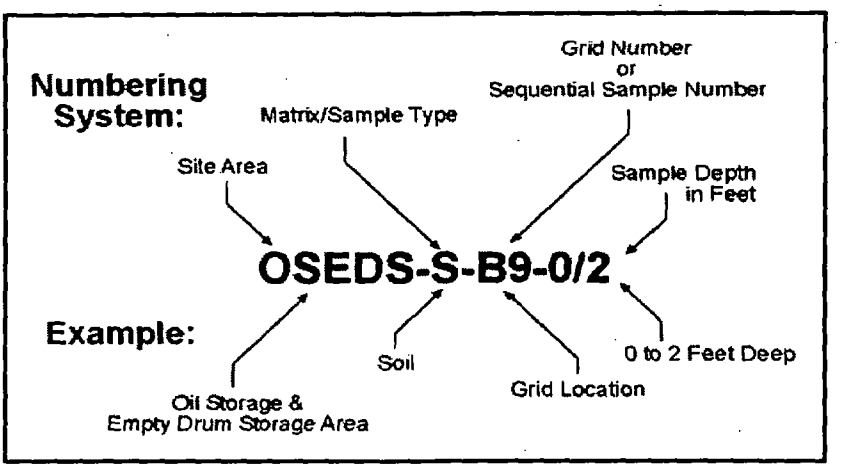
Comment	GPS_Date	Feat_Name	Unfilt_Pos	Horz_Prec	Latitude	Longitude	Point_ID
[illegible] C 10	1/22/2002	Point_ge	30		41.815777743	-103.636691394	254
OSDS C 11	1/22/2002	Point_ge	32		41.815638937	-103.636672000	255
OSDS C 12	1/22/2002	Point_ge	30		41.815509880	-103.636683308	256
OSDS C 13	1/22/2002	Point_ge	30		41.815360678	-103.636671092	257
OSDS C 14	1/22/2002	Point_ge	31		41.815236568	-103.636664823	258
OSDS C 15	1/22/2002	Point_ge	31		41.815091595	-103.636636631	259
BP 3	1/22/2002	Point_ge	31		41.816400157	-103.636792219	260
BP 4	1/22/2002	Point_ge	31		41.816661004	-103.636782162	261
BP 1	1/22/2002	Point_ge	31		41.816669975	-103.636625566	262
BP 1 A	1/22/2002	Point_ge	30		41.816636573	-103.636445910	263
BP 1 B	1/22/2002	Point_ge	30		41.816540424	-103.636446895	264
BP 2	1/22/2002	Point_ge	30		41.816404238	-103.636644298	265
HWSD A 1	1/22/2002	Point_ge	31		41.816182789	-103.637991509	266
HWSD A 2	1/22/2002	Point_ge	31		41.816044893	-103.637979783	267
HWSD A 3	1/22/2002	Point_ge	30		41.815902807	-103.637982302	268
HWSD A 4	1/22/2002	Point_ge	38		41.815771735	-103.637987566	269
HWSD B 1	1/22/2002	Point_ge	30		41.816175869	-103.638169570	270
HWSD B 2	1/22/2002	Point_ge	37		41.816036336	-103.638162141	271
HWSD B 3	1/22/2002	Point_ge	33		41.815908781	-103.638153585	272
HWSD B 4	1/22/2002	Point_ge	30		41.815764936	-103.638153511	273
SI 3	1/22/2002	Point_ge	31		41.815102143	-103.639904173	274
SI 2	1/22/2002	Point_ge	30		41.815362205	-103.639899781	275
SI 1	1/22/2002	Point_ge	30		41.815533150	-103.639887583	276
SI 6	1/22/2002	Point_ge	30		41.815745694	-103.640067801	277
SI 5	1/22/2002	Point_ge	32		41.815745292	-103.640246510	278
SI 4	1/22/2002	Point_ge	31		41.815735343	-103.640478348	279
HWSC SLUDGE	1/23/2002	Point_ge	32		41.816733633	-103.638395627	280
[illegible]IC TANK SLUDGE	1/23/2002	Point_ge	33		41.817733654	-103.636972636	281
[illegible]AP METAL WST SLUDGE	1/23/2002	Point_ge	63		41.820547199	-103.637699351	282
1	1/23/2002	Point_ge	30	4.968	41.819556261	-103.638582304	283
2	1/23/2002	Point_ge	30	5.604	41.819206316	-103.638925153	284
3	1/23/2002	Point_ge	39	4.599	41.816916475	-103.638236242	285
4	1/23/2002	Point_ge	30	5.891	41.817629159	-103.639554749	286

APPENDIX E

SAMPLE NOMENCLATURE

TABLE 1
SAMPLE NOMENCLATURE AND ACRONYMS
AGROMAC-LOCKWOOD SITE, GERING, NEBRASKA
JANUARY 2002

SAMPLE NOMENCLATURE



ACRONYMS

Acronym	Site Area
BA	Borrow Area
BP	Burn Pit
GB	Galvanizing Building
GBS	Galvanizing Building Sumps
HWS	Hazardous Waste Storage Area (A, B, C, & D)
MTS	Metal Treatment Sumps
OSEDS	Oil Storage & Empty Drum Storage Area
OS	Off-site Sample
RPS	Raw Product Storage Area
SA	Scrap Area
SAP	Spent Acid Pit
SI	Surface Impoundment
SMP	Scrap Metal Pad Area
SMWB	Scrap Metal Waste Bin Area
SR	Solvent Recovery Area
ST	Septic Tank
SWD	Storm Water Ditch

Acronym	Metal
Ag	Silver
As	Arsenic
Ba	Barium
Cd	Cadmium
Cr	Chromium
Hg	Mercury
Mn	Manganese
Mo	Molybendum
Ni	Nickel
Pb	Lead
Se	Selenium
Zn	Zinc

Acronym	Matrix/Sample Type
GGW	Geoprobe Groundwater
MW	Monitoring Well

Acronym	Matrix/Sample Type (Continued)
MuW	Municipal Well
PW	Private Well
RF	RCRA MW
S	Soil
SG	Soil-gas
SLU	Sludge
SW	Source Water
WW	Wastewater

Acronym	Miscellaneous
BAC	Beta Acid Crystals
CON	Confirmation
DECON	Decontamination
DUP	Duplicate
FD	Field Duplicate
GW	Groundwater
MS	Matrix Spike
MSD	Matrix Spike Duplicate
mg/kg	Milligrams per kilogram
NA	Not analyzed
ND	Non-detect
PCE	Tetrachloroethylene
ppm	Parts per million
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
Redo	Reanalyzed after drying
SW	Source Water
TCA	1,1,1-Trichloroethane
TCE	Trichloroethene
TCLP	Toxicity Characteristic Leaching Procedure
VOC	Volatile Organic Compound
µg/kg	Micrograms per kilogram
µg/L	Micrograms per liter

APPENDIX F

WATER LEVEL MEASUREMENTS

Well ID and Corresponding Depths
Agromac-Lockwood Site
Gering, Nebraska

January 2002

Well ID	Depth
RF-1	68.87
RF-2	68.86
RF-3	69.71
RF-4	69.80
RF-5	68.11
MW-LW-1	68.11
MW-LW-2	69.60
MW-LW-3	68.91
MW-LW-4	68.86
MW-LW-5	69.71
MW-LW-6	NA
MW-LW-7	68.58
MW-LW-8	68.70
MW-M-1	70.90
MW-M-2	70.86
MW-M-3	71.31
MW-M-4	70.64
MW-M-5	70.44
MW-M-6	71.46
MW-M-7	70.79
MW-M-8	71.55
MW-MI-1	70.85
MW-MI-2	71.30

Notes:

The casing for MW LW-6 was located inside of a confined

No permits or equipment were available at the site, therefore the water level in this well was

APPENDIX G

SLUDGE SAMPLE DESCRIPTIONS

DESCRIPTION OF SLUDGE SAMPLES
AGROMAC-LOCKWOOD SITE
GERING, NEBRASKA
JANUARY 2002

Sample Number	Description of Sludge
BAC-1	Very light yellowish green granular - beta acid crystals
BAC-SLU	Yellowish crystals growing on outside of beta acid crystal bags
HWSC-SLU	Blackish Sludge
MTS-GB-SLU-1	Reddish Brown Sludge
MTS-GB-SLU-2	Light Brown Powder with white specks
MTS-GB-SLU-3	Dark Green Sludge
MTS-GB-SLU-4	Zinc Tank Backfill - Dry - Light Gray, gravelly before sieving
SMWB-SLU	Black Sludge with Coal Tar Smell
ST-SLU	Blackish Sludge
GBS-Metallic	Metallic deposits in cracks in concrete & brick below the galvanizing tank

Notes:

See Figure 6 for sample locations.

BAC - Beta acid crystals
HWSC - Hazardous waste storage are C
MTS -
SMWB - Soil monitoring well B
ST - Septic Tank
GBS - Galvanizing building sumps

APPENDIX H

HAZCAT FIELD SCREENING DATA SUMMARY