

APPENDIX 2.7.1-1.1

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Buckman, John F.

Portions of Sections within Permit Boundary:*

Approx. 5.7 acres in extreme southeast corner of SE1/4 SE1/4, Sec 15

Land Use	Acres
Corral / Feedlot	<0.1
Cropland	0.6
Cropland Waterway	--
Driveway	<0.1
Farmstead Yard	2.3
Feed / Hay Lot	--
Garden	--
Industrial - Utilities	--
Mines	--
Native Vegetation	--
Native Grassland-Tame Pastureland	--
Tame Pastureland	--
Tame Pastureland Woodland	<0.1
Rights-of-Way / Lanes	0.6
Road Surfaces	0.4
Shelterbelt	1.5
Residences	<0.1
Structures (non-residence)	<0.1
Developed Water Resources	--
Waste Dump	--
Wetlands	--
Woodlands	--
Total	5.7

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.1

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Buckman, John F.

Portions of Sections within Permit Boundary:*

Approx. 5.7 acres in extreme southeast corner of SE1/4 SE1/4, Sec 15

Soil Map Unit Acreage

Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	--	--	--	--
AR-AB	--	0.1	0.6	0.7
AR-CD	--	--	--	--
CB-AB	--	--	--	--
CB-C	--	--	--	--
CB-DE	--	--	--	--
DH-A	--	--	--	--
DH-B	--	--	--	--
DM-AB	--	--	--	--
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	--	--	--	--
FR-DE	--	--	--	--
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	--	--	--	--
HL-A	--	--	--	--
HL-A ch	--	--	--	--
HL-A s/s	--	--	--	--
JG-AB	--	--	--	--
LE-A	--	--	--	--
LR-A	--	0.5	1.0	1.5
LR-B	--	--	--	--
MG-AB	--	--	--	--
MN-A	--	--	--	--
MN-BC	--	--	--	--
MU-A	--	--	--	--
MU-B	--	--	--	--
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	--	--	--	--
RS-A	--	--	--	--
RS-B	--	--	--	--
RT-AB	--	--	--	--
RT-CD	--	--	--	--
SE-A	--	--	--	--
SE-B	--	--	--	--
SN-AB	--	--	--	--
SO-A s/s	--	--	--	--
SO-ABC	--	--	--	--
TY-ABC	--	--	--	--
VR-ABC	--	--	--	--
WN-A	--	--	--	--
WN-B	--	--	--	--
WN-CDE	--	--	--	--
CHAN	--	--	--	--
Wet Saline	--	--	--	--
DIST	--	--	0.5	0.5
FMSTD	--	--	2.5	2.5
ROW	--	--	0.6	0.6
WAT	--	--	--	--
Total	--	0.6	5.1	5.7

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.2

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Emmil, Leocadia Family Trust

Portions of Sections within Permit Boundary:*
SE1/4, Sec. 33; & SW1/4, NW1/4, NE1/4, Sec. 34

Land Use	Acres
Corral / Feedlot	--
Cropland	32.8
Cropland Waterway	--
Driveway	--
Farmstead Yard	--
Feed / Hay Lot	--
Garden	--
Industrial - Utilities	--
Mines	--
Native Vegetation	--
Native Grassland-Tame Pastureland	--
Tame Pastureland	--
Tame Pastureland Woodland	--
Rights-of-Way / Lanes	8.5
Road Surfaces	0.6
Shelterbelt	0.5
Residences	--
Structures (non-residence)	--
Developed Water Resources	--
Waste Dump	--
Wetlands	<0.1
Woodlands	1.7
Total	44.1

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.2

SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY

Landowner: Emmil, Leocadia Family Trust

Portions of Sections within Permit Boundary:*

SE1/4, Sec. 33; & SW1/4, NW1/4, NE1/4, Sec. 34

Soil Map Unit Acreage

Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	--	--	--	--
AR-AB	--	--	--	--
AR-CD	--	--	--	--
CB-AB	--	--	--	--
CB-C	--	--	--	--
CB-DE	--	--	--	--
DH-A	--	0.2	--	0.2
DH-B	--	--	--	--
DM-AB	--	--	--	--
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	--	--	--	--
FR-DE	--	--	--	--
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	--	--	--	--
HL-A	--	--	--	--
HL-A ch	--	--	1.5	1.5
HL-A s/s	--	2.5	0.2	2.7
JG-AB	--	--	--	--
LE-A	--	--	--	--
LR-A	--	5.8	--	5.8
LR-B	--	0.2	--	0.2
MG-AB	--	--	--	--
MN-A	--	--	--	--
MN-BC	--	--	--	--
MU-A	--	--	--	--
MU-B	--	6.2	--	6.2
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	--	10.6	--	10.6
RS-A	--	--	--	--
RS-B	--	0.2	--	0.2
RT-AB	--	1.1	--	1.1
RT-CD	--	--	--	--
SE-A	--	1.1	--	1.1
SE-B	--	1.5	--	1.5
SN-AB	--	--	--	--
SO-A s/s	--	3.0	0.5	3.6
SO-ABC	--	--	--	--
TY-ABC	--	--	--	--
VR-ABC	--	--	--	--
WN-A	--	--	--	--
WN-B	--	--	--	--
WN-CDE	--	0.4	--	0.4
CHAN	--	--	--	--
Wet Saline	--	--	--	--
DIST	--	--	0.6	0.6
FMSTD	--	--	--	--
ROW	--	--	8.5	8.5
WAT	--	--	--	--
Total	--	32.8	11.3	44.1

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.3

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Klein, Larry R.

Portions of Sections within Permit Boundary:*

NE1/4, Sec. 33

Land Use	Land Use Acreage	Acres
Corral / Feedlot		--
Cropland		1.9
Cropland Waterway		--
Driveway		--
Farmstead Yard		--
Feed / Hay Lot		--
Garden		--
Industrial - Utilities		--
Mines		--
Native Vegetation		--
Native Grassland-Tame Pastureland		--
Tame Pastureland		--
Tame Pastureland Woodland		--
Rights-of-Way / Lanes		0.3
Road Surfaces		<0.1
Shelterbelt		--
Residences		--
Structures (non-residence)		--
Developed Water Resources		--
Waste Dump		--
Wetlands		--
Woodlands		--
	Total	2.2

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.3

SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY

Landowner: Klein, Larry R.

Portions of Sections within Permit Boundary:*

NE1/4, Sec. 33

Soil Map Unit Acreage

Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	--	--	--	--
AR-AB	--	--	--	--
AR-CD	--	--	--	--
CB-AB	--	--	--	--
CB-C	--	--	--	--
CB-DE	--	--	--	--
DH-A	--	--	--	--
DH-B	--	--	--	--
DM-AB	--	--	--	--
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	--	--	--	--
FR-DE	--	--	--	--
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	--	--	--	--
HL-A	--	--	--	--
HL-A ch	--	--	--	--
HL-A s/s	--	--	--	--
JG-AB	--	--	--	--
LE-A	--	--	--	--
LR-A	--	--	--	--
LR-B	--	--	--	--
MG-AB	--	--	--	--
MN-A	--	--	--	--
MN-BC	--	--	--	--
MU-A	--	--	--	--
MU-B	--	<0.1	--	<0.1
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	--	--	--	--
RS-A	--	--	--	--
RS-B	--	--	--	--
RT-AB	--	--	--	--
RT-CD	--	--	--	--
SE-A	--	--	--	--
SE-B	--	--	--	--
SN-AB	--	--	--	--
SO-A s/s	--	--	--	--
SO-ABC	--	--	--	--
TY-ABC	--	--	--	--
VR-ABC	--	--	--	--
WN-A	--	--	--	--
WN-B	--	--	--	--
WN-CDE	--	1.9	--	1.9
CHAN	--	--	--	--
Wet Saline	--	--	--	--
DIST	--	--	<0.1	<0.1
FMSTD	--	--	--	--
ROW	--	--	0.3	0.3
WAT	--	--	--	--
Total	--	1.9	0.4	2.2

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.4

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Kudrna, Kenneth D.

Portions of Sections within Permit Boundary:*

SE1/4, Sec. 20

Land Use	Acres
Corral / Feedlot	--
Cropland	4.5
Cropland Waterway	0.1
Driveway	--
Farmstead Yard	--
Feed / Hay Lot	--
Garden	--
Industrial - Utilities	--
Mines	--
Native Vegetation	--
Native Grassland-Tame Pastureland	--
Tame Pastureland	<0.1
Tame Pastureland Woodland	--
Rights-of-Way / Lanes	0.2
Road Surfaces	--
Shelterbelt	--
Residences	--
Structures (non-residence)	--
Developed Water Resources	--
Waste Dump	--
Wetlands	--
Woodlands	--
Total	4.8

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.4

SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE PERMIT BOUNDARY

Landowner: Kudrna, Kenneth D.

Portions of Sections within Permit Boundary:*

SE1/4, Sec. 20

Soil Map Unit	Soil Map Unit Acreage			Total Acres
	Tame Pastureland Acres	Cropland Acres	Other Acres	
AD-AB	--	--	--	--
AR-AB	--	--	--	--
AR-CD	<0.1	--	--	<0.1
CB-AB	<0.1	1.0	--	1.1
CB-C	--	0.5	--	0.5
CB-DE	--	--	--	--
DH-A	--	--	--	--
DH-B	--	--	--	--
DM-AB	--	--	--	--
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	--	--	--	--
FR-DE	--	--	--	--
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	--	--	--	--
HL-A	--	--	--	--
HL-A ch	--	--	--	--
HL-A s/s	--	--	--	--
JG-AB	--	--	--	--
LE-A	--	--	--	--
LR-A	--	1.0	0.1	1.1
LR-B	--	1.0	--	1.0
MG-AB	--	--	--	--
MN-A	--	--	--	--
MN-BC	--	--	--	--
MU-A	--	--	--	--
MU-B	<0.1	0.9	--	0.9
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	--	--	--	--
RS-A	--	--	--	--
RS-B	--	<0.1	--	<0.1
RT-AB	--	--	--	--
RT-CD	--	--	--	--
SE-A	--	--	--	--
SE-B	--	--	--	--
SN-AB	--	--	--	--
SO-A s/s	--	--	--	--
SO-ABC	--	--	--	--
TY-ABC	--	--	--	--
VR-ABC	--	--	--	--
WN-A	--	--	--	--
WN-B	--	--	--	--
WN-CDE	--	--	--	--
CHAN	--	--	--	--
Wet Saline	--	--	--	--
DIST	--	--	--	--
FMSTD	--	--	--	--
ROW	--	--	0.2	0.2
WAT	--	--	--	--
Total	<0.1	4.5	0.3	4.8

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.5

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

**Landowner: Kuylen, Patrick 80%; Kuylen, Katherine R.
20%**

Portions of Sections within Permit Boundary:*
NW1/4, NE1/4, Sec. 20; & Sec. 27 (entire section)

Land Use	Acres
Corral / Feedlot	7.2
Cropland	317.7
Cropland Waterway	0.1
Driveway	1.0
Farmstead Yard	4.3
Feed / Hay Lot	3.4
Garden	--
Industrial - Utilities	--
Mines	0.2
Native Vegetation	152.2
Native Grassland-Tame Pastureland	15.7
Tame Pastureland	11.8
Tame Pastureland Woodland	--
Rights-of-Way / Lanes	21.1
Road Surfaces	6.1
Shelterbelt	1.5
Residences	<0.1
Structures (non-residence)	0.4
Developed Water Resources	1.3
Waste Dump	--
Wetlands	5.4
Woodlands	105.4
Total	654.8

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.5

SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE PERMIT BOUNDARY

Landowner: Kuylen, Patrick 80%; Kuylen, Katherine R. 20%

Portions of Sections within Permit Boundary:*
NW1/4, NE1/4, Sec. 20; & Sec. 27 (entire section)

Soil Map Unit Acreage

Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	0.8	6	0.5	7.3
AR-AB	--	--	--	--
AR-CD	<0.1	0.7	--	0.8
CB-AB	<0.1	13.7	2.0	15.7
CB-C	0.1	2.6	--	2.7
CB-DE	1.4	8.8	17.5	27.8
DH-A	0.5	4.9	10.0	15.4
DH-B	--	2.0	--	2.0
DM-AB	--	9.7	0.2	9.9
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	--	--	--	--
FR-DE	0.3	2	7.8	10.2
FV-A	--	--	--	--
FV-A s/s	--	3.5	1.8	5.3
GL-A	--	--	--	--
HL-A	--	--	--	--
HL-A ch	0.2	--	16.0	16.2
HL-A s/s	1.2	4.2	132.4	137.7
JG-AB	--	--	--	--
LE-A	--	--	--	--
LR-A	0.7	0.6	1.4	2.6
LR-B	--	23.4	0.2	23.6
MG-AB	0.4	0.3	11.1	11.8
MN-A	--	--	--	--
MN-BC	<0.1	8.0	--	8.0
MU-A	--	2.2	1.1	3.3
MU-B	--	14.2	0.5	14.6
PL-BC	--	1.8	--	1.8
PL-DEF	--	--	--	--
RR-B	--	3.2	0.4	3.6
RS-A	--	18.3	5.4	23.7
RS-B	--	--	5.3	5.3
RT-AB	0.8	48.3	2.8	51.9
RT-CD	0.3	9.0	17.9	27.2
SE-A	1.1	39.8	13.4	54.4
SE-B	0.6	28.3	3.0	31.8
SN-AB	<0.1	<0.1	1.2	1.3
SO-A s/s	2.8	0.1	9.5	12.4
SO-ABC	0.1	3.6	<0.1	3.9
TY-ABC	--	--	4.0	4.0
VR-ABC	--	--	--	--
WN-A	--	--	--	--
WN-B	0.1	55.9	<0.1	56.0
WN-CDE	--	2.8	0.1	2.9
CHAN	0.2	--	10.8	10.9
Wet Saline	--	--	--	--
DIST	--	--	7.2	7.2
FMSTD	--	--	15.3	15.3
ROW	--	--	21.1	21.1
WAT	--	--	5.4	5.4
Total	11.8	317.7	325.3	654.8

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.6

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Kuylen, Patrick and Katherine

Portions of Sections within Permit Boundary:*

N1/2 NW1/4, E1/2 SE1/4, Sec. 28

Land Use	Acres
Corral / Feedlot	--
Cropland	28.4
Cropland Waterway	--
Driveway	--
Farmstead Yard	--
Feed / Hay Lot	--
Garden	--
Industrial - Utilities	--
Mines	--
Native Vegetation	0.8
Native Grassland-Tame Pastureland	--
Tame Pastureland	8.2
Tame Pastureland Woodland	--
Rights-of-Way / Lanes	1.3
Road Surfaces	0.8
Shelterbelt	--
Residences	--
Structures (non-residence)	--
Developed Water Resources	--
Waste Dump	--
Wetlands	--
Woodlands	--
Total	39.6

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.6

SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY

Landowner: **Kylen, Patrick and Katherine**

Soil Map Unit Acreage

Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	--	--	--	--
AR-AB	<0.1	--	0.1	0.2
AR-CD	--	--	--	--
CB-AB	1.5	<0.1	0.4	1.9
CB-C	--	--	--	--
CB-DE	2.8	--	0.4	3.2
DH-A	--	--	--	--
DH-B	--	--	--	--
DM-AB	0.4	3.1	--	3.5
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	0.1	0.4	--	0.5
FR-DE	0.4	0.3	--	0.7
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	--	3.6	--	3.6
HL-A	--	1.3	--	1.3
HL-A ch	--	--	--	--
HL-A s/s	--	--	--	--
JG-AB	--	--	--	--
LE-A	--	--	--	--
LR-A	--	--	--	--
LR-B	--	0.1	--	0.1
MG-AB	--	--	--	--
MN-A	--	--	--	--
MN-BC	--	--	--	--
MU-A	--	--	--	--
MU-B	0.6	5.3	--	5.9
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	--	--	--	--
RS-A	--	--	--	--
RS-B	--	--	--	--
RT-AB	--	--	--	--
RT-CD	--	--	--	--
SE-A	0.4	3.1	--	3.4
SE-B	1.4	7.8	--	9.1
SN-AB	--	--	--	--
SO-A s/s	--	--	--	--
SO-ABC	--	--	--	--
TY-ABC	--	--	--	--
VR-ABC	--	--	--	--
WN-A	--	--	--	--
WN-B	--	--	--	--
WN-CDE	0.6	3.5	--	4.1
CHAN	--	--	--	--
Wet Saline	--	--	--	--
DIST	--	--	0.9	0.9
FMSTD	--	--	--	--
ROW	--	--	1.4	1.4
WAT	--	--	--	--
Total	8.2	28.4	3.1	39.6

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.7

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Kuylen, P. and K. 71%; Kuylen, P. 29%

Portions of Sections within Permit Boundary:*

NE1/4, Sec. 28

Land Use	Acres
Corral / Feedlot	--
Cropland	22.2
Cropland Waterway	--
Driveway	--
Farmstead Yard	--
Feed / Hay Lot	--
Garden	--
Industrial - Utilities	--
Mines	0.6
Native Vegetation	62.7
Native Grassland-Tame Pastureland	--
Tame Pastureland	4.1
Tame Pastureland Woodland	--
Rights-of-Way / Lanes	<0.1
Road Surfaces	<0.1
Shelterbelt	--
Residences	--
Structures (non-residence)	--
Developed Water Resources	--
Waste Dump	0.4
Wetlands	1.9
Woodlands	12.0
Total	104.0

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.7

SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE PERMIT BOUNDARY

Landowner: Kuylen, P. and K. 71%; Kuylen, P. 29%

Portions of Sections within Permit Boundary:*

NE1/4, Sec. 28

Soil Map Unit Acreage				
Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	--	--	--	--
AR-AB	--	--	--	--
AR-CD	--	--	--	--
CB-AB	--	--	--	--
CB-C	0.4	0.2	0.2	0.8
CB-DE	--	--	0.7	0.7
DH-A	<0.1	<0.1	<0.1	<0.1
DH-B	--	--	--	--
DM-AB	--	--	--	--
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	0.7	4.1	--	4.8
FR-DE	0.8	<0.1	<0.1	0.8
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	--	--	--	--
HL-A	0.2	5.6	13.3	19.1
HL-A ch	--	--	--	--
HL-A s/s	1.6	8.4	18.8	28.8
JG-AB	--	--	--	--
LE-A	<0.1	--	11.8	11.8
LR-A	--	--	0.6	0.6
LR-B	--	--	--	--
MG-AB	--	--	--	--
MN-A	--	--	--	--
MN-BC	--	--	--	--
MU-A	--	--	--	--
MU-B	--	--	--	--
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	--	--	--	--
RS-A	--	--	15.7	15.7
RS-B	--	--	5.4	5.4
RT-AB	<0.1	--	--	<0.1
RT-CD	--	--	--	--
SE-A	<0.1	0.1	5.1	5.3
SE-B	0.1	3.6	<0.1	3.8
SN-AB	--	--	0.7	0.7
SO-A s/s	--	--	--	--
SO-ABC	--	--	--	--
TY-ABC	--	--	--	--
VR-ABC	--	--	--	--
WN-A	--	--	--	--
WN-B	--	--	--	--
WN-CDE	--	--	--	--
CHAN	0.1	0.2	2.1	2.5
Wet Saline	--	--	--	--
DIST	--	--	1.0	1.0
FMSTD	--	--	--	--
ROW	--	--	<0.1	<0.1
WAT	--	--	2.3	2.3
Total	4.1	22.2	77.7	104.0

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.8

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Kuylen, Robert F. and Brenda K.

Portions of Sections within Permit Boundary:

SW1/4, Sec. 16; Sec. 17 (all portions within Permit Boundary); & Sec. 21
(entire section)*

Land Use	Acres
Corral / Feedlot	12.5
Cropland	621.1
Cropland Waterway	8.7
Driveway	0.7
Farmstead Yard	4.9
Feed / Hay Lot	3.7
Garden	--
Industrial - Utilities	0.2
Mines	1.1
Native Vegetation	328.0
Native Grassland-Tame Pastureland	20.8
Tame Pastureland	76.7
Tame Pastureland Woodland	--
Rights-of-Way / Lanes	22.8
Road Surfaces	3.9
Shelterbelt	8.2
Residences	<0.1
Structures (non-residence)	0.3
Developed Water Resources	1.5
Waste Dump	--
Wetlands	3.1
Woodlands	1.6
Total	1,119.9

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.8

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Kuylen, Robert F. and Brenda K.

Portions of Sections within Permit Boundary:

SW1/4, Sec. 16; Sec. 17 (all portions within Permit Boundary); & Sec. 21
(entire section)*

Soil Map Unit Acreage

Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	--	--	0.5	0.5
AR-AB	--	--	3.3	3.3
AR-CD	2.9	--	3.7	6.5
CB-AB	<0.1	9.9	7.7	17.6
CB-C	4.2	5.2	14.5	23.9
CB-DE	3.5	26.2	17.0	46.7
DH-A	--	9.5	10.7	20.2
DH-B	7.1	7.7	33.7	48.5
DM-AB	14.6	3.7	20.0	38.3
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	--	8.4	--	8.4
FR-DE	--	12.4	2.8	15.1
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	--	10.3	--	10.3
HL-A	--	--	--	--
HL-A ch	--	--	--	--
HL-A s/s	--	--	--	--
JG-AB	10	--	1.5	11.5
LE-A	0.2	<0.1	0.2	0.4
LR-A	1.1	64.9	15.7	81.7
LR-B	--	71.2	0.7	71.9
MG-AB	--	--	--	--
MN-A	--	--	--	--
MN-BC	--	--	--	--
MU-A	--	48.2	<0.1	48.2
MU-B	0.6	99.1	10.3	109.9
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	--	--	--	--
RS-A	10.9	9	78.6	98.5
RS-B	2.1	<0.1	70.9	73.0
RT-AB	5	4.6	8.8	18.4
RT-CD	<0.1	0.6	3.8	4.4
SE-A	3.2	56.2	20.6	80.0
SE-B	7.6	52.3	11.7	71.6
SN-AB	0.3	17.0	1.3	18.6
SO-A s/s	--	--	--	--
SO-ABC	--	6.6	<0.1	6.6
TY-ABC	--	--	--	--
VR-ABC	--	--	--	--
WN-A	--	0.3	13.3	13.6
WN-B	2.8	96.7	14.7	114.2
WN-CDE	0.2	--	--	0.2
CHAN	--	--	--	--
Wet Saline	0.6	1.2	4.9	6.6
DIST	--	--	5.7	5.7
FMSTD	--	--	21.5	21.5
ROW	--	--	22.7	22.7
WAT	--	--	1.3	1.3
Total	76.7	621.1	422.1	1,119.9

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.9

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Meduna, Gary L. and Barbara

Portions of Sections within Permit Boundary:*

SW1/4, Sec. 9

Land Use	Acres
Corral / Feedlot	--
Cropland	29.4
Cropland Waterway	--
Driveway	--
Farmstead Yard	--
Feed / Hay Lot	--
Garden	--
Industrial - Utilities	--
Mines	<0.1
Native Vegetation	7.9
Native Grassland-Tame Pastureland	--
Tame Pastureland	<0.1
Tame Pastureland Woodland	2.2
Rights-of-Way / Lanes	--
Road Surfaces	--
Shelterbelt	--
Residences	--
Structures (non-residence)	--
Developed Water Resources	<0.1
Waste Dump	--
Wetlands	3.4
Woodlands	--
Total	43.0

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.9

SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY

Landowner: Meduna, Gary L. and Barbara

Portions of Sections within Permit Boundary:*
SW1/4, Sec. 9

Soil Map Unit	Soil Map Unit Acreage			Total Acres
	Tame Pastureland Acres	Cropland Acres	Other Acres	
AD-AB	--	--	--	--
AR-AB	--	--	--	--
AR-CD	--	--	--	--
CB-AB	--	--	--	--
CB-C	--	--	--	--
CB-DE	--	--	--	--
DH-A	--	--	--	--
DH-B	--	0.5	<0.1	0.5
DM-AB	--	--	--	--
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	--	--	--	--
FR-DE	--	--	--	--
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	--	1.7	--	1.7
HL-A	--	--	--	--
HL-A ch	--	--	--	--
HL-A s/s	--	--	--	--
JG-AB	--	--	--	--
LE-A	--	--	--	--
LR-A	--	--	--	--
LR-B	--	--	--	--
MG-AB	--	--	--	--
MN-A	--	--	--	--
MN-BC	--	--	--	--
MU-A	--	--	--	--
MU-B	--	--	--	--
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	--	--	--	--
RS-A	--	--	--	--
RS-B	--	--	--	--
RT-AB	--	2.5	--	2.5
RT-CD	--	--	--	--
SE-A	--	9.4	<0.1	9.5
SE-B	--	2.3	--	2.3
SN-AB	--	--	--	--
SO-A s/s	--	--	--	--
SO-ABC	--	--	--	--
TY-ABC	--	--	--	--
VR-ABC	--	0.8	--	0.8
WN-A	--	--	--	--
WN-B	<0.1	11.3	9.9	21.2
WN-CDE	--	1.0	0.2	1.2
CHAN	--	--	--	--
Wet Saline	--	--	3.4	3.4
DIST	--	--	<0.1	<0.1
FMSTD	--	--	--	--
ROW	--	--	--	--
WAT	--	--	<0.1	<0.1
Total	<0.1	29.4	13.6	43.0

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.10

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Peters, Mary Louise et. al

Portions of Sections within Permit Boundary:*

All sec. 15 & N1/2, SE1/4 sec. 16

Land Use	Land Use Acreage	Acres
Corral / Feedlot		0.2
Cropland		945.8
Cropland Waterway		3.3
Driveway		<0.1
Farmstead Yard		<0.1
Feed / Hay Lot		0.5
Garden		--
Industrial - Utilities		--
Mines		3.0
Native Vegetation		15.7
Native Grassland-Tame Pastureland		2.2
Tame Pastureland		0.2
Tame Pastureland Woodland		47.1
Rights-of-Way / Lanes		10.8
Road Surfaces		3.8
Shelterbelt		4.0
Residences		--
Structures (non-residence)		--
Developed Water Resources		1.8
Waste Dump		--
Wetlands		3.9
Woodlands		0.9
	Total	1,043.3

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.10

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Peters, Mary Louise et. al

Portions of Sections within Permit Boundary:*

All sec. 15 & N1/2, SE1/4 sec. 16

Soil Map Unit Acreage

Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	<0.1	5.2	41.8	47.0
AR-AB	<0.1	10.6	0.9	11.4
AR-CD	--	6.9	--	6.9
CB-AB	--	15.9	0.2	16.0
CB-C	--	9.4	<0.1	9.5
CB-DE	--	--	3.9	3.9
DH-A	--	31.6	1.2	32.8
DH-B	--	2.7	0.9	3.6
DM-AB	--	--	--	--
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	--	1.9	--	1.9
FR-DE	--	9.9	--	9.9
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	--	--	--	--
HL-A	--	--	--	--
HL-A ch	--	--	--	--
HL-A s/s	--	--	--	--
JG-AB	--	--	--	--
LE-A	--	--	1.1	1.1
LR-A	--	202.8	3.4	206.2
LR-B	--	65.8	0.8	66.6
MG-AB	--	--	--	--
MN-A	--	2.6	--	2.6
MN-BC	--	19.8	--	19.8
MU-A	--	23.3	0.5	23.8
MU-B	--	198.4	4.8	203.2
PL-BC	--	2.2	--	2.2
PL-DEF	--	1.1	--	1.1
RR-B	--	2.1	--	2.1
RS-A	--	--	1.3	1.3
RS-B	--	0.3	0.3	0.6
RT-AB	--	50.7	1.3	52.0
RT-CD	--	28.1	1.2	29.3
SE-A	--	25.9	4.2	30.1
SE-B	0.2	79.2	0.4	79.7
SN-AB	--	7.8	0.5	8.3
SO-A s/s	--	--	--	--
SO-ABC	--	17.9	0.6	18.5
TY-ABC	--	2.8	0.5	3.3
VR-ABC	--	4.2	--	4.2
WN-A	--	10.0	<0.1	10.0
WN-B	--	105.9	7.6	113.5
WN-CDE	--	1.1	--	1.1
CHAN	--	--	--	--
Wet Saline	--	--	0.2	0.2
DIST	--	--	7.0	7.0
FMSTD	--	--	0.7	0.7
ROW	--	--	10.8	10.8
WAT	--	--	1.3	1.3
Total	0.3	945.7	97.3	1,043.3

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.11

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY**

Landowner: Pavel, Robert B.

Portions of Sections within Permit Boundary:*
SW1/4, Sec. 10; & NW1/4, Sec. 14

Land Use	Land Use Acreage	Acres
Corral / Feedlot		--
Cropland		71.6
Cropland Waterway		--
Driveway		--
Farmstead Yard		3.2
Feed / Hay Lot		<0.1
Garden		--
Industrial - Utilities		--
Mines		--
Native Vegetation		--
Native Grassland-Tame Pastureland		--
Tame Pastureland		2.0
Tame Pastureland Woodland		--
Rights-of-Way / Lanes		6.3
Road Surfaces		2.0
Shelterbelt		1.2
Residences		--
Structures (non-residence)		--
Developed Water Resources		--
Waste Dump		--
Wetlands		--
Woodlands		--
	Total	86.3

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.11

SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE
PERMIT BOUNDARY

Landowner: Pavel, Robert B.

Portions of Sections within Permit Boundary:*

SW1/4, Sec. 10; & NW1/4, Sec. 14

Soil Map Unit Acreage

Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	--	--	--	--
AR-AB	--	0.5	--	0.5
AR-CD	--	--	--	--
CB-AB	--	2.6	--	2.6
CB-C	--	--	--	--
CB-DE	--	--	--	--
DH-A	--	--	--	--
DH-B	--	--	--	--
DM-AB	--	--	--	--
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	--	1.7	--	1.7
FR-DE	--	--	--	--
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	--	--	--	--
HL-A	--	--	--	--
HL-A ch	--	--	--	--
HL-A s/s	--	--	--	--
JG-AB	--	--	--	--
LE-A	--	--	--	--
LR-A	0.7	38.3	<0.1	39.1
LR-B	--	--	--	--
MG-AB	--	--	--	--
MN-A	--	5.2	--	5.2
MN-BC	--	--	--	--
MU-A	--	4.8	--	4.8
MU-B	--	--	--	--
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	--	--	--	--
RS-A	--	--	--	--
RS-B	--	--	--	--
RT-AB	--	--	--	--
RT-CD	--	--	--	--
SE-A	0.1	0.6	--	0.8
SE-B	<0.1	0.3	<0.1	0.3
SN-AB	--	3.4	--	3.4
SO-A s/s	--	--	--	--
SO-ABC	0.1	5.8	--	5.9
TY-ABC	1.0	8.4	1.2	10.5
VR-ABC	<0.1	--	--	<0.1
WN-A	--	--	--	--
WN-B	--	--	--	--
WN-CDE	--	<0.1	--	<0.1
CHAN	--	--	--	--
Wet Saline	--	--	--	--
DIST	--	--	2.0	2.0
FMSTD	--	--	3.2	3.2
ROW	--	--	6.3	6.3
WAT	--	--	--	--
Total	2.0	71.6	12.8	86.3

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.12

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN
THE PERMIT BOUNDARY**

Landowner: Perdaems, James D. and Rosella J.

Portions of Sections within Permit Boundary:*

SW1/4, SE1/4, Sec. 14; NW1/4, NE1/4, Sec 22; & Sec. 23 (entire section)

Land Use	Acres
Corral / Feedlot	10.6
Cropland	753.6
Cropland Waterway	1.9
Driveway	3.1
Farmstead Yard	3.1
Feed / Hay Lot	1.0
Garden	0.1
Industrial - Utilities	0.2
Mines	0.5
Native Vegetation	12.4
Native Grassland-Tame Pastureland	5.1
Tame Pastureland	95.2
Tame Pastureland Woodland	--
Rights-of-Way / Lanes	31.7
Road Surfaces	7.8
Shelterbelt	5.8
Residences	<0.1
Structures (non-residence)	0.6
Developed Water Resources	4.5
Waste Dump	0.7
Wetlands	10.1
Woodlands	87.0
Total	1,034.9

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.12

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN
THE PERMIT BOUNDARY**

Landowner: Perdaems, James D. and Rosella J.

Portions of Sections within Permit Boundary:*

SW1/4, SE1/4, Sec. 14; NW1/4, NE1/4, Sec 22; & Sec. 23 (entire section)

Soil Map Unit Acreage

Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	5.2	11.9	0.8	17.9
AR-AB	0.6	3.7	1.1	5.4
AR-CD	--	5.1	--	5.1
CB-AB	0.5	22.6	<0.1	23.2
CB-C	--	16.4	<0.1	16.4
CB-DE	1.8	0.3	5.2	7.2
DH-A	--	--	--	--
DH-B	<0.1	--	<0.1	<0.1
DM-AB	2.9	5.8	1.2	9.8
EH-A	2.8	35.7	14.3	52.8
EH-A s/s	0.6	3.4	0.2	4.1
FR-BC	--	--	--	--
FR-DE	--	--	--	--
FV-A	24.6	34.4	44.6	103.5
FV-A s/s	0.2	3.3	1.4	4.8
GL-A	0.7	8.0	--	8.7
HL-A	4.3	23.4	12.6	40.4
HL-A ch	--	--	--	--
HL-A s/s	--	--	--	--
JG-AB	1.2	8.2	0.1	9.6
LE-A	6.4	1.5	4.6	12.6
LR-A	2.9	141.4	0.6	144.8
LR-B	<0.1	10.8	<0.1	10.8
MG-AB	3.0	76.7	2.6	82.2
MN-A	0.4	112.8	<0.1	113.2
MN-BC	--	--	--	--
MU-A	1.1	9.9	0.2	11.1
MU-B	--	--	--	--
PL-BC	<0.1	1.5	<0.1	1.5
PL-DEF	--	--	--	--
RR-B	--	3	--	3.0
RS-A	5.7	8	0.1	13.8
RS-B	<0.1	8	0.6	8.6
RT-AB	0.4	63.7	<0.1	64.1
RT-CD	--	--	--	--
SE-A	10.8	49.0	0.6	60.4
SE-B	--	7.6	--	7.6
SN-AB	3.2	29.8	<0.1	33.1
SO-A s/s	--	--	--	--
SO-ABC	0.3	5.7	<0.1	6.0
TY-ABC	5.3	8.3	0.6	14.1
VR-ABC	<0.1	12.2	--	12.3
WN-A	6.1	21.8	--	27.8
WN-B	--	<0.1	--	<0.1
WN-CDE	--	--	--	--
CHAN	3.1	0.1	25.8	29.0
Wet Saline	1.5	<0.1	0.3	1.8
DIST	--	--	12.2	12.2
FMSTD	--	--	15.4	15.4
ROW	--	--	31.7	31.7
WAT	--	--	9.3	9.3
Total	95.2	753.6	186.1	1,034.9

Notes:

APPENDIX 2.7.1-1.12

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN
THE PERMIT BOUNDARY**

Landowner: Perdaems, James D. and Rosella J.

Portions of Sections within Permit Boundary:*

SW1/4, SE1/4, Sec. 14; NW1/4, NE1/4, Sec 22; & Sec. 23 (entire section)

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.13

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND
SOIL MAPPING UNIT INFORMATION BY LANDOWNER
WITHIN THE PERMIT BOUNDARY**

Landowner: Perdaems, Jerry F. and Sandra M.

Portions of Sections within Permit Boundary:*

SW1/4, SE1/4, Sec. 22

Land Use	Acres
Corral / Feedlot	--
Cropland	200.0
Cropland Waterway	--
Driveway	0.2
Farmstead Yard	2.0
Feed / Hay Lot	--
Garden	--
Industrial - Utilities	--
Mines	--
Native Vegetation	<0.1
Native Grassland-Tame Pastureland	--
Tame Pastureland	17.2
Tame Pastureland Woodland	--
Rights-of-Way / Lanes	4.7
Road Surfaces	0.6
Shelterbelt	2.9
Residences	<0.1
Structures (non-residence)	0.1
Developed Water Resources	0.2
Waste Dump	--
Wetlands	4.7
Woodlands	85.3
Total	318.0

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.13

SUMMARY OF PRE-MINING LAND USE ACREAGE AND
SOIL MAPPING UNIT INFORMATION BY LANDOWNER
WITHIN THE PERMIT BOUNDARY

Landowner: Perdaems, Jerry F. and Sandra M.

Portions of Sections within Permit Boundary:*

SW1/4, SE1/4, Sec. 22

Soil Map Unit Acreage

Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	--	--	--	--
AR-AB	--	--	--	--
AR-CD	<0.1	2.7	--	2.7
CB-AB	<0.1	4.6	--	4.7
CB-C	0.1	4.2	<0.1	4.3
CB-DE	3.3	11.6	<0.1	14.9
DH-A	--	--	--	--
DH-B	--	--	--	--
DM-AB	--	--	--	--
EH-A	--	--	0.7	0.7
EH-A s/s	4.3	13.3	25.3	42.8
FR-BC	--	--	--	--
FR-DE	--	--	--	--
FV-A	--	--	--	--
FV-A s/s	2.5	30.9	37.9	71.3
GL-A	0.5	13.6	0.2	14.4
HL-A	--	<0.1	--	<0.1
HL-A ch	--	--	--	--
HL-A s/s	0.6	0.3	2.8	3.7
JG-AB	--	--	--	--
LE-A	--	--	--	--
LR-A	--	--	--	--
LR-B	1.0	10.4	--	11.4
MG-AB	<0.1	12.9	--	12.9
MN-A	0.3	10.4	--	10.7
MN-BC	--	5.9	--	5.9
MU-A	--	--	--	--
MU-B	1.8	19.1	2.0	22.8
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	0.9	9.4	1.2	11.5
RS-A	0.2	<0.1	0.7	0.9
RS-B	--	--	--	--
RT-AB	0.1	7.4	<0.1	7.6
RT-CD	--	--	--	--
SE-A	--	5.6	0.2	5.8
SE-B	--	2.9	--	2.9
SN-AB	0.2	11.5	<0.1	11.8
SO-A s/s	0.4	8.5	0.1	9.0
SO-ABC	0.1	3.6	<0.1	3.7
TY-ABC	--	--	--	--
VR-ABC	--	--	--	--
WN-A	<0.1	6.1	0.2	6.4
WN-B	--	5.0	<0.1	5.1
WN-CDE	--	--	--	--
CHAN	0.7	<0.1	17.1	17.9
Wet Saline	--	--	--	--
DIST	--	--	0.8	0.8
FMSTD	--	--	2.2	2.2
ROW	--	--	4.7	4.7
WAT	--	--	4.6	4.6
Total	17.2	200.0	100.8	318.0

Notes:

APPENDIX 2.7.1-1.13

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND
SOIL MAPPING UNIT INFORMATION BY LANDOWNER
WITHIN THE PERMIT BOUNDARY**

Landowner: Perdaems, Jerry F. and Sandra M.

Portions of Sections within Permit Boundary:*

SW1/4, SE1/4, Sec. 22

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.14

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND
SOIL MAPPING UNIT INFORMATION BY LANDOWNER
WITHIN THE PERMIT BOUNDARY**

Landowner: Wagner, Glen R.

Portions of Sections within Permit Boundary:*

All sec 29

Land Use	Land Use Acreage	Acres
Corral / Feedlot		--
Cropland		<0.1
Cropland Waterway		--
Driveway		--
Farmstead Yard		--
Feed / Hay Lot		--
Garden		--
Industrial - Utilities		--
Mines		--
Native Vegetation		--
Native Grassland-Tame Pastureland		--
Tame Pastureland		<0.1
Tame Pastureland Woodland		--
Rights-of-Way / Lanes		--
Road Surfaces		--
Shelterbelt		--
Residences		--
Structures (non-residence)		--
Developed Water Resources		--
Waste Dump		--
Wetlands		--
Woodlands		--
	Total	0.2

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.14

SUMMARY OF PRE-MINING LAND USE ACREAGE AND
SOIL MAPPING UNIT INFORMATION BY LANDOWNER
WITHIN THE PERMIT BOUNDARY

Landowner: Wagner, Glen R.

Portions of Sections within Permit Boundary:*

All sec 29

Soil Map Unit Acreage				
Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	--	--	--	--
AR-AB	--	--	--	--
AR-CD	--	--	--	--
CB-AB	<0.1	<0.1	<0.1	0.2
CB-C	--	--	--	--
CB-DE	--	--	--	--
DH-A	--	--	--	--
DH-B	--	--	--	--
DM-AB	--	--	--	--
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	--	--	--	--
FR-DE	--	--	--	--
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	--	--	--	--
HL-A	--	--	--	--
HL-A ch	--	--	--	--
HL-A s/s	--	--	--	--
JG-AB	--	--	--	--
LE-A	--	--	--	--
LR-A	--	--	--	--
LR-B	--	--	--	--
MG-AB	--	--	--	--
MN-A	--	--	--	--
MN-BC	--	--	--	--
MU-A	--	--	--	--
MU-B	--	--	--	--
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	--	--	--	--
RS-A	--	--	--	--
RS-B	--	--	--	--
RT-AB	--	--	--	--
RT-CD	--	--	--	--
SE-A	--	--	--	--
SE-B	--	--	--	--
SN-AB	--	--	--	--
SO-A s/s	--	--	--	--
SO-ABC	--	--	--	--
TY-ABC	--	--	--	--
VR-ABC	--	--	--	--
WN-A	--	--	--	--
WN-B	--	--	--	--
WN-CDE	--	--	--	--
CHAN	--	--	--	--
Wet Saline	--	--	--	--
DIST	--	--	--	--
FMSTD	--	--	--	--
ROW	--	--	--	--
WAT	--	--	--	--
Total	<0.1	<0.1	<0.1	0.2

Notes:

- See Table 2.4-5 for map unit descriptions

APPENDIX 2.7.1-1.15

**SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL
MAPPING UNIT INFORMATION BY LANDOWNER WITHIN
THE PERMIT BOUNDARY**

Landowner: Wagner, James and Lisa

Portions of Sections within Permit Boundary:*
SE1/4, Sec. 9

Land Use	Acres
Corral / Feedlot	--
Cropland	59.6
Cropland Waterway	--
Driveway	--
Farmstead Yard	--
Feed / Hay Lot	--
Garden	--
Industrial - Utilities	--
Mines	--
Native Vegetation	16.6
Native Grassland-Tame Pastureland	--
Tame Pastureland	0.7
Tame Pastureland Woodland	--
Rights-of-Way / Lanes	1.4
Road Surfaces	--
Shelterbelt	--
Residences	--
Structures (non-residence)	--
Developed Water Resources	--
Waste Dump	--
Wetlands	<0.1
Woodlands	2.1
Total	80.5

* The ownership may not be the same for portions of sections outside of the Permit Boundary.

APPENDIX 2.7.1-1.15

SUMMARY OF PRE-MINING LAND USE ACREAGE AND SOIL MAPPING UNIT INFORMATION BY LANDOWNER WITHIN THE PERMIT BOUNDARY

Landowner: Wagner, James and Lisa

Portions of Sections within Permit Boundary:*

SE1/4, Sec. 9

Soil Map Unit Acreage				
Soil Map Unit	Tame Pastureland Acres	Cropland Acres	Other Acres	Total Acres
AD-AB	--	--	--	--
AR-AB	--	--	--	--
AR-CD	--	--	--	--
CB-AB	--	--	--	--
CB-C	--	<0.1	--	<0.1
CB-DE	--	--	--	--
DH-A	--	--	--	--
DH-B	--	--	--	--
DM-AB	--	<0.1	4.4	4.5
EH-A	--	--	--	--
EH-A s/s	--	--	--	--
FR-BC	--	--	--	--
FR-DE	--	--	--	--
FV-A	--	--	--	--
FV-A s/s	--	--	--	--
GL-A	0.1	4.1	0.8	5.0
HL-A	--	--	--	--
HL-A ch	--	--	--	--
HL-A s/s	--	--	--	--
JG-AB	--	--	--	--
LE-A	--	--	0.3	0.3
LR-A	--	3.9	--	3.9
LR-B	--	--	--	--
MG-AB	--	--	--	--
MN-A	--	--	--	--
MN-BC	--	--	--	--
MU-A	--	2.1	<0.1	2.1
MU-B	--	--	--	--
PL-BC	--	--	--	--
PL-DEF	--	--	--	--
RR-B	--	--	--	--
RS-A	--	--	--	--
RS-B	--	--	--	--
RT-AB	--	--	--	--
RT-CD	--	--	0.9	0.9
SE-A	0.5	32.1	0.1	32.7
SE-B	<0.1	2.9	3.6	6.6
SN-AB	--	--	--	--
SO-A s/s	--	--	--	--
SO-ABC	<0.1	2.8	--	2.9
TY-ABC	--	--	--	--
VR-ABC	--	--	--	--
WN-A	--	--	--	--
WN-B	--	6.3	2.8	9.0
WN-CDE	--	<0.1	0.5	0.5
CHAN	--	--	--	--
Wet Saline	--	5.4	5.2	10.6
DIST	--	--	--	--
FMSTD	--	--	--	--
ROW	--	--	1.5	1.5
WAT	--	--	--	--
Total	0.8	59.6	20.1	80.5

Notes:

- See Table 2.4-5 for map unit descriptions