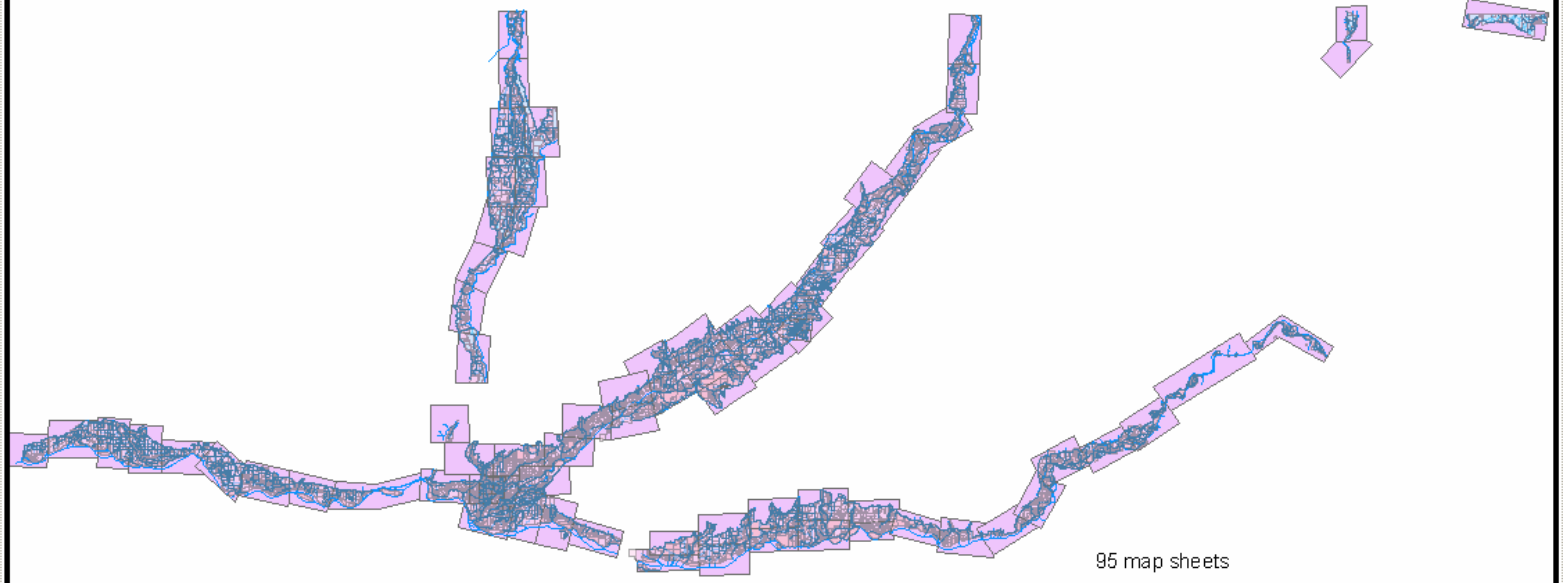
SAN JUAN PILOT PROJECT: LA PLATA SECTION

Presentation to Governor's
Blue Ribbon Water Task Force

by
Dario Rodriguez-Bejarano
Litigation and Adjudication Program
Office of the State Engineer
Albuquerque, New Mexico

23 March 2005

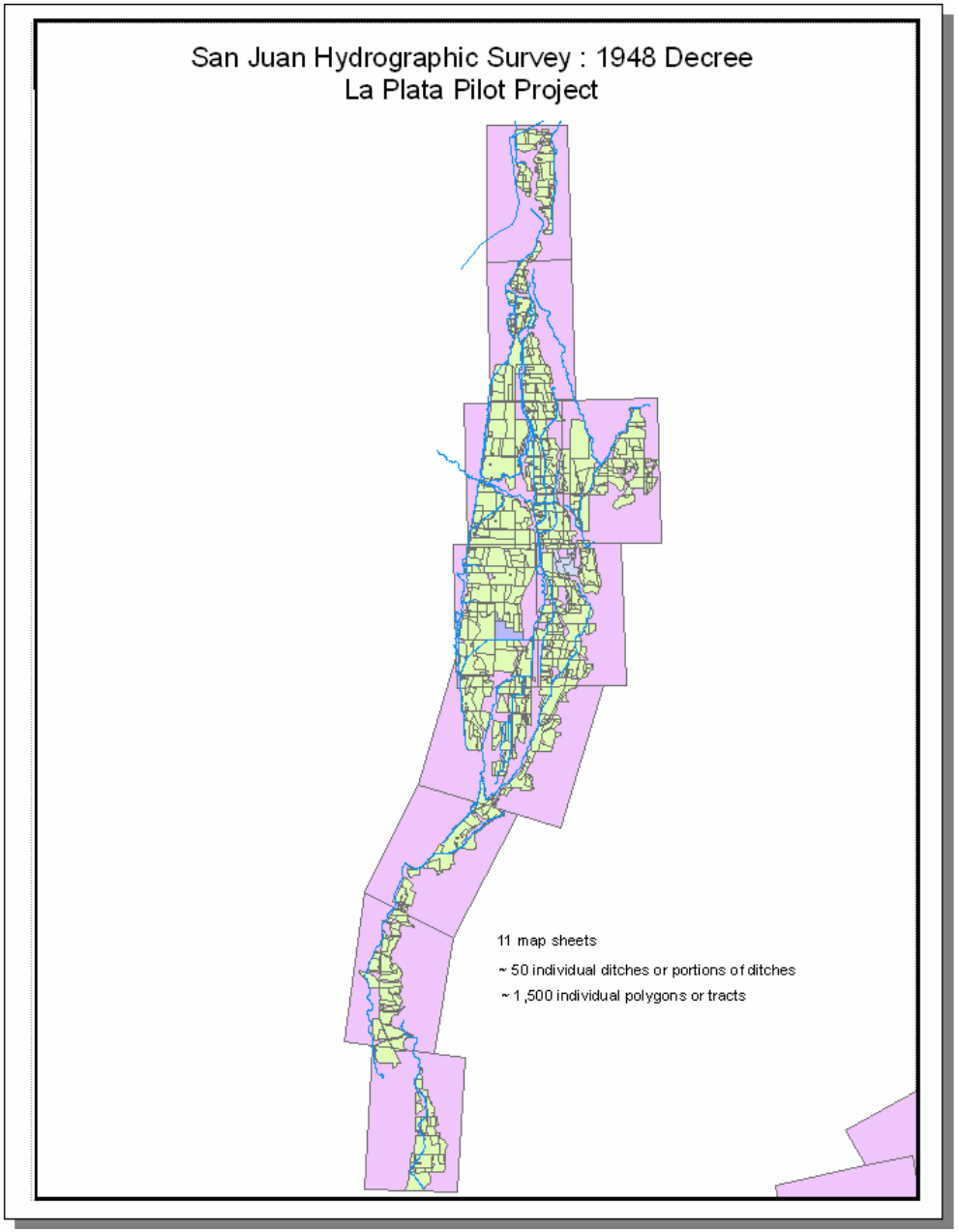
San Juan Hydrographic Survey of 1938

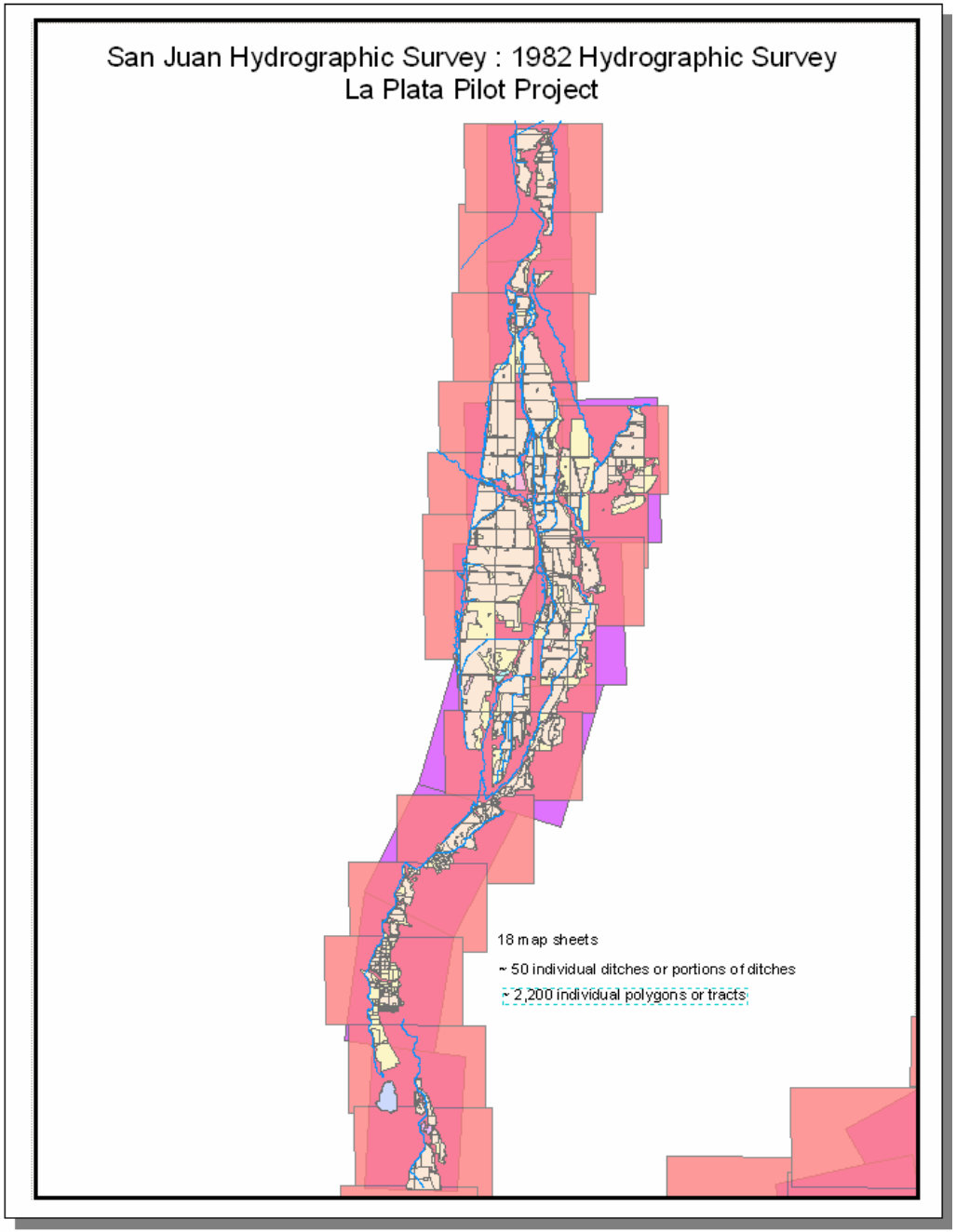


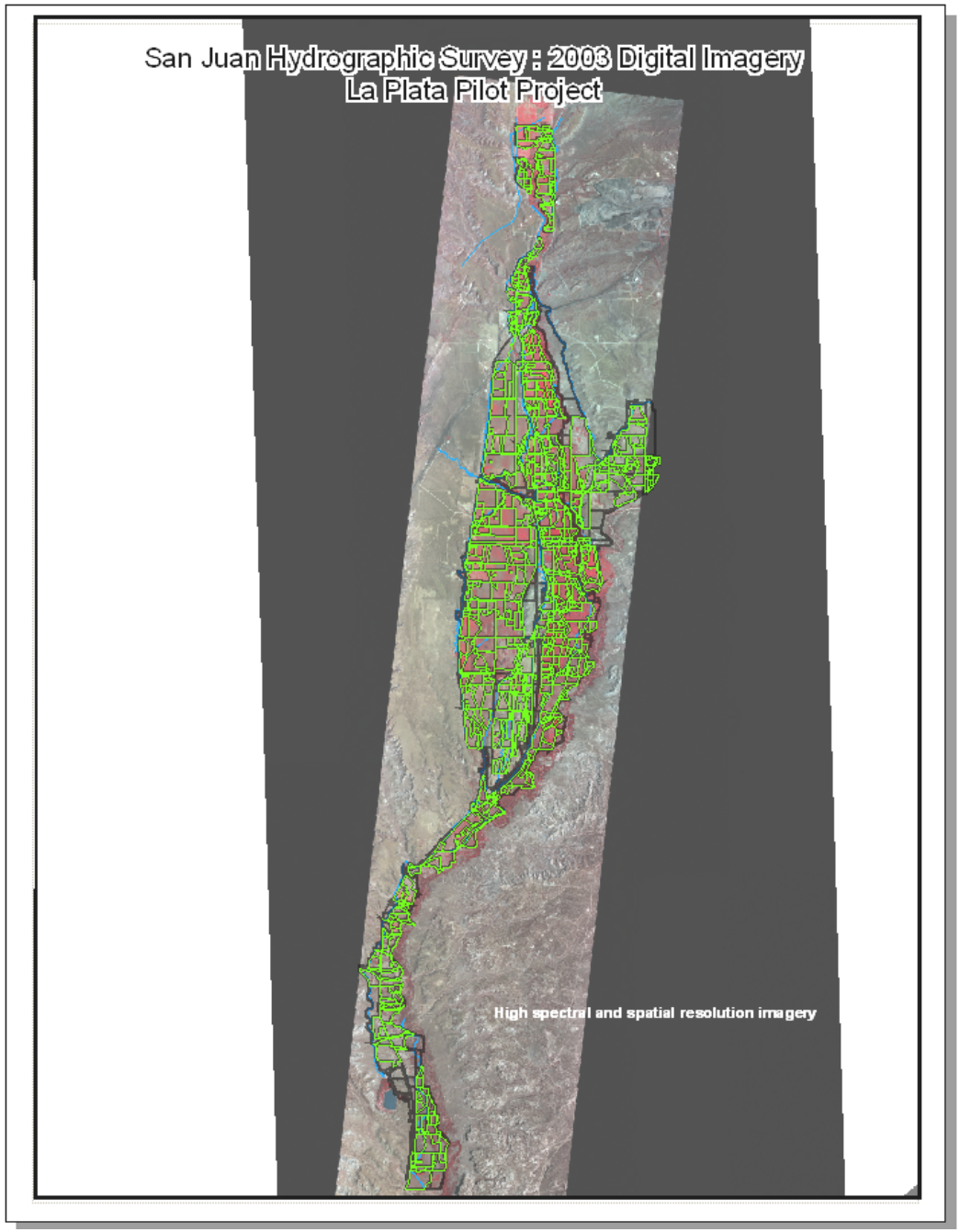
95 map sheets

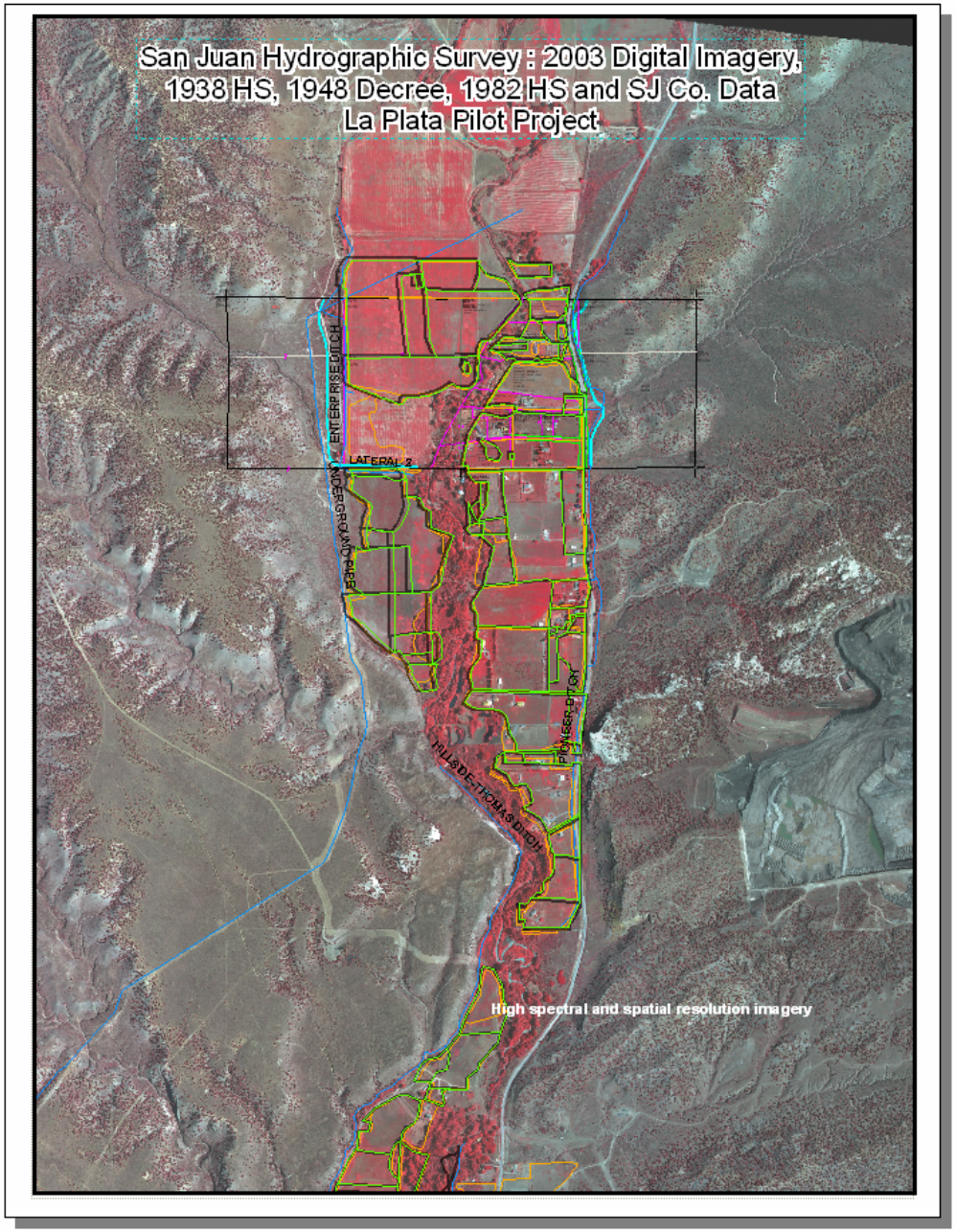
~ 5,000 individual ditches or portions of ditches

~ 13,000 individual polygons or tracts

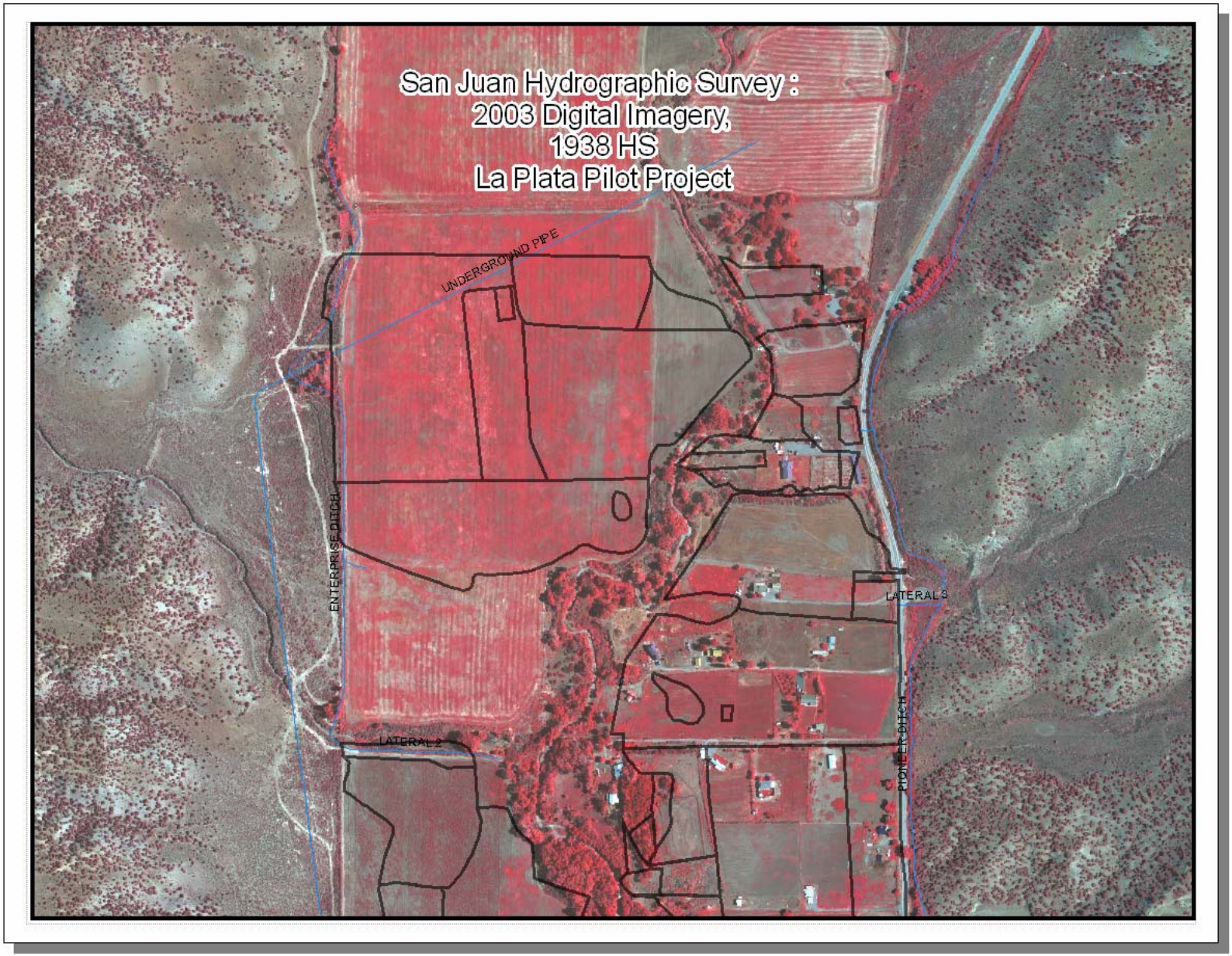

San Juan Hydrographic Survey : 1948 Decree
La Plata Pilot Project
11 map sheets
~ 50 individual ditches or portions of ditches
~ 1,500 individual polygons or tracts

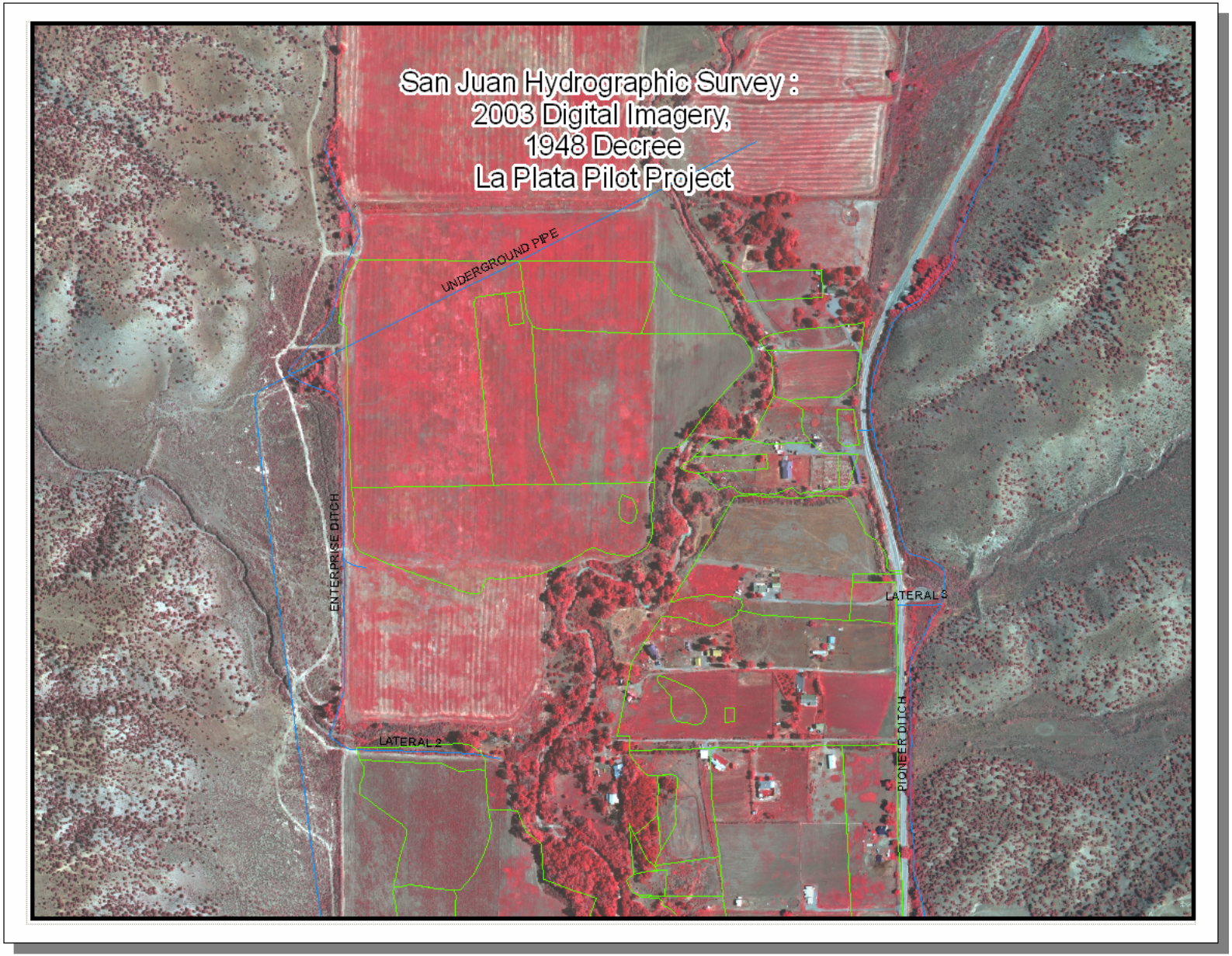

San Juan Hydrographic Survey : 1982 Hydrographic Survey
La Plata Pilot Project
18 map sheets
~ 50 individual ditches or portions of ditches
~ 2,200 individual polygons or tracts


San Juan Hydrographic Survey : 2003 Digital Imagery
La Plata Pilot Project
High spectral and spatial resolution imagery

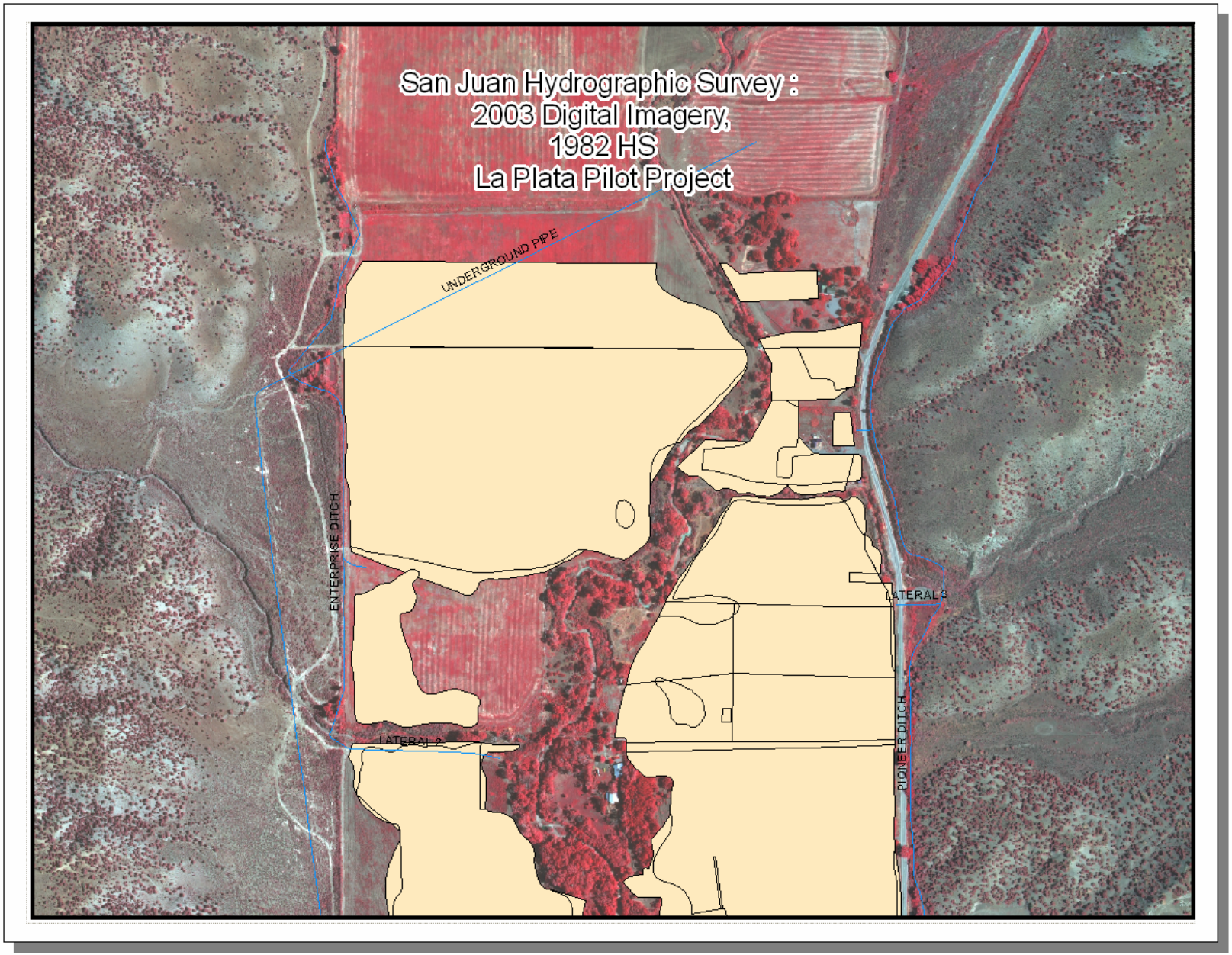

San Juan Hydrographic Survey : 2003 Digital Imagery,
1938 HS, 1948 Decree, 1982 HS and SJ Co. Data
La Plata Pilot Project
ENTERPRISE DITCH
LATERAL 2
UNDERGROUND PIPE
PIONEER DITCH
HILLS DE THOMAS DITCH
High spectral and spatial resolution imagery

Blue Ribbon Water Task Force
DRB - 23Mar05

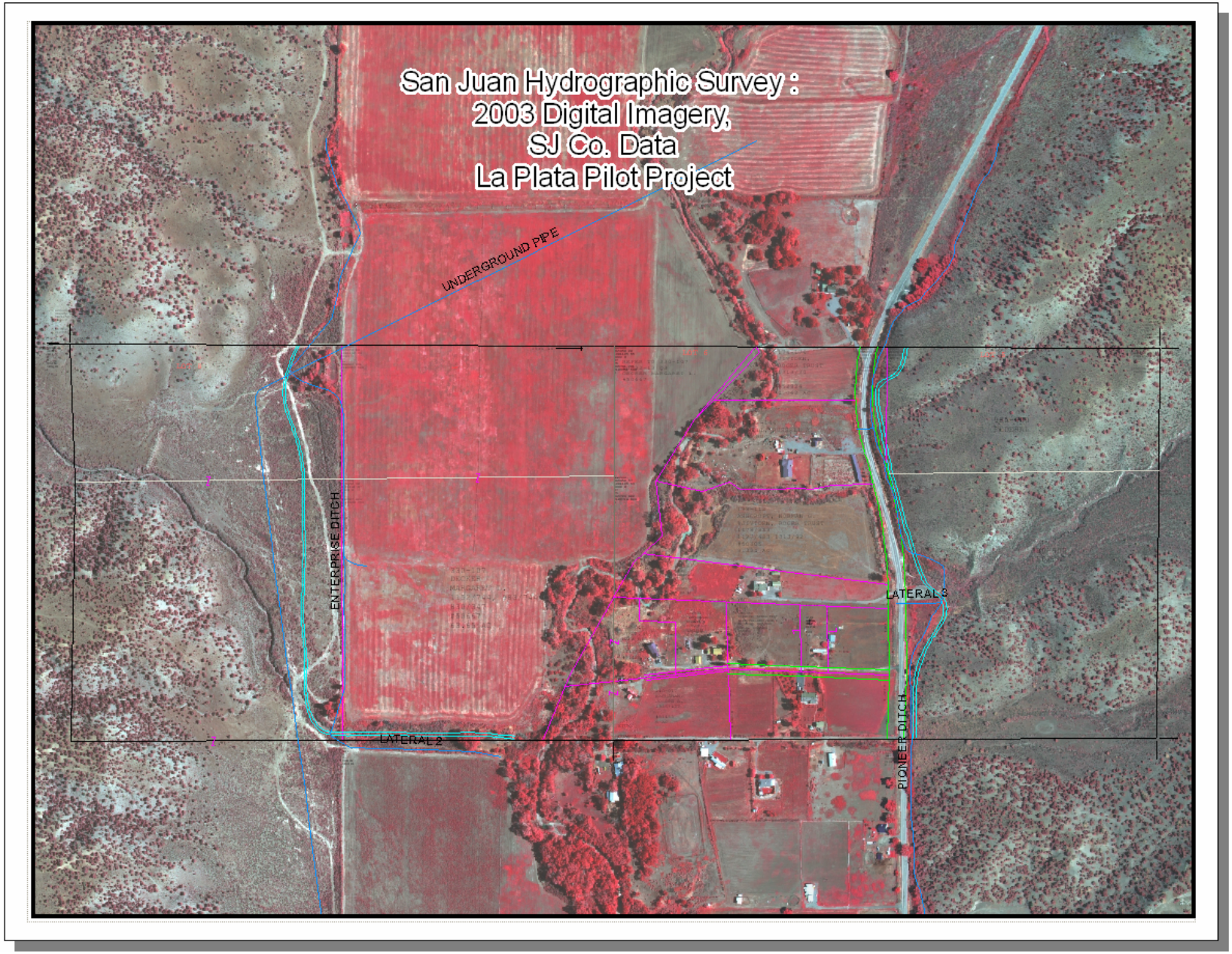

San Juan Hydrographic Survey :
2003 Digital Imagery,
1938 HS
La Plata Pilot Project
UNDERGROUND PIPE
ENTERPRISE DITCH
LATERAL 3
LATERAL 2
PIONEER DITCH

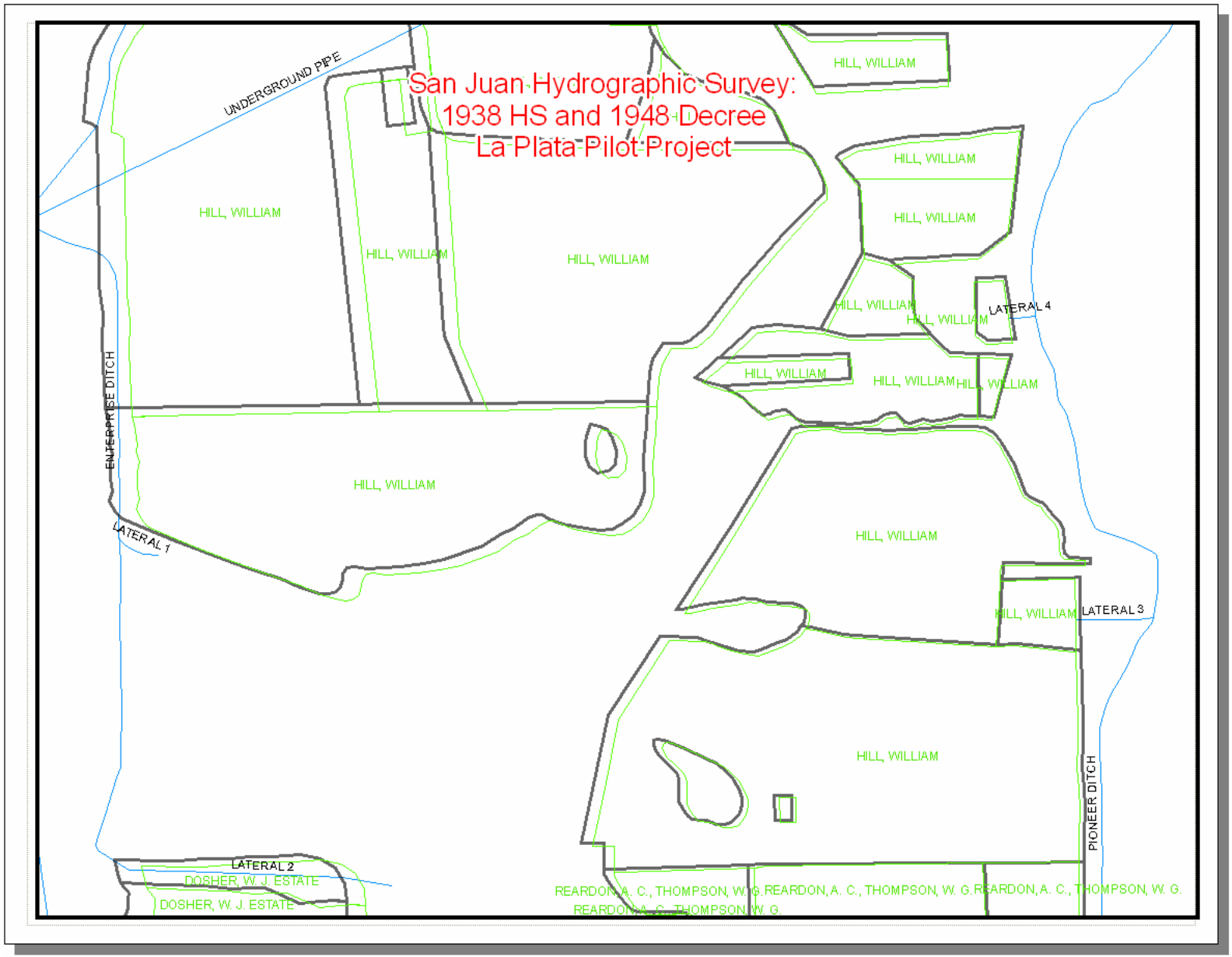


Blue Ribbon Water Task Force
DRB - 23Mar05

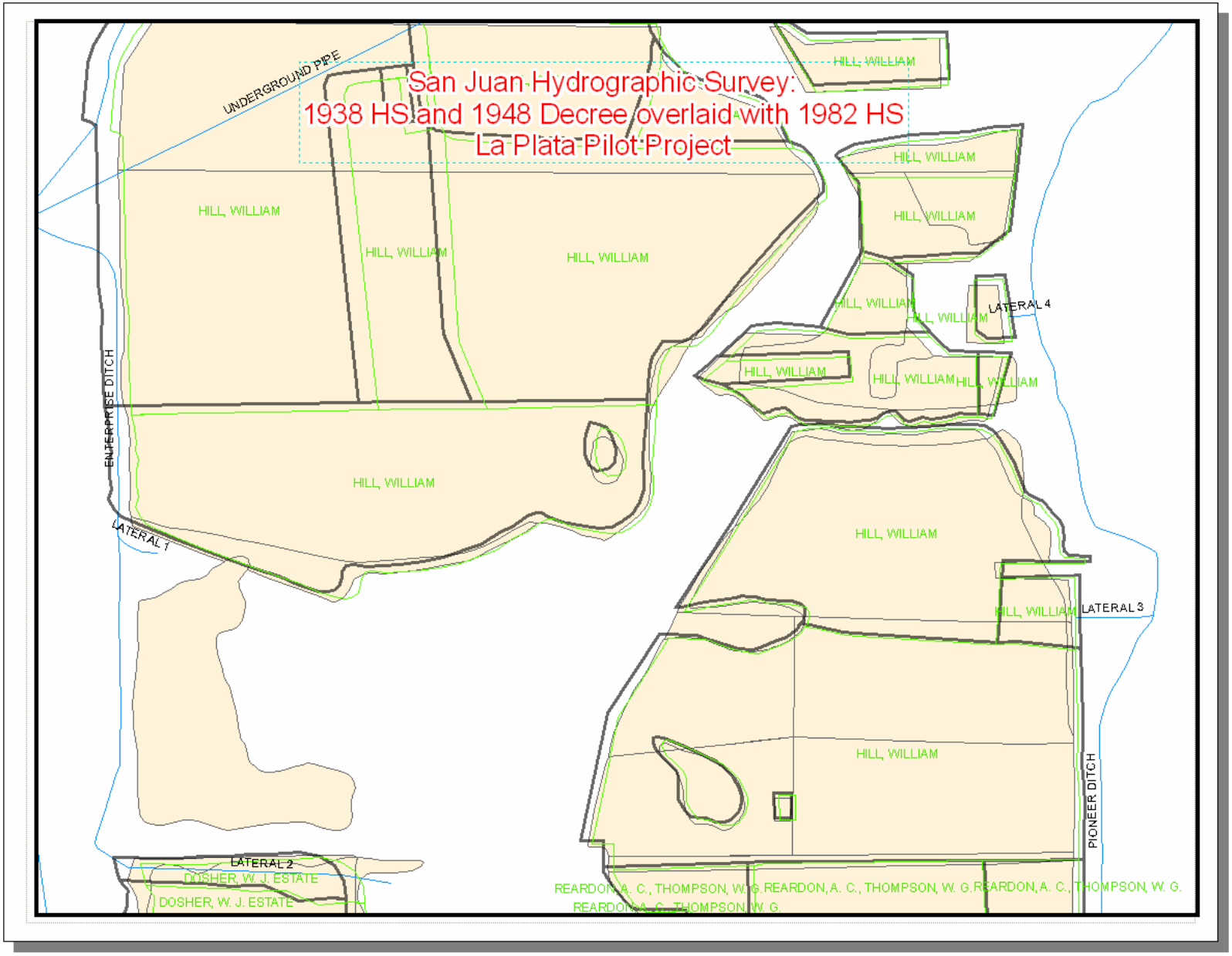


Blue Ribbon Water Task Force
DRB - 23Mar05

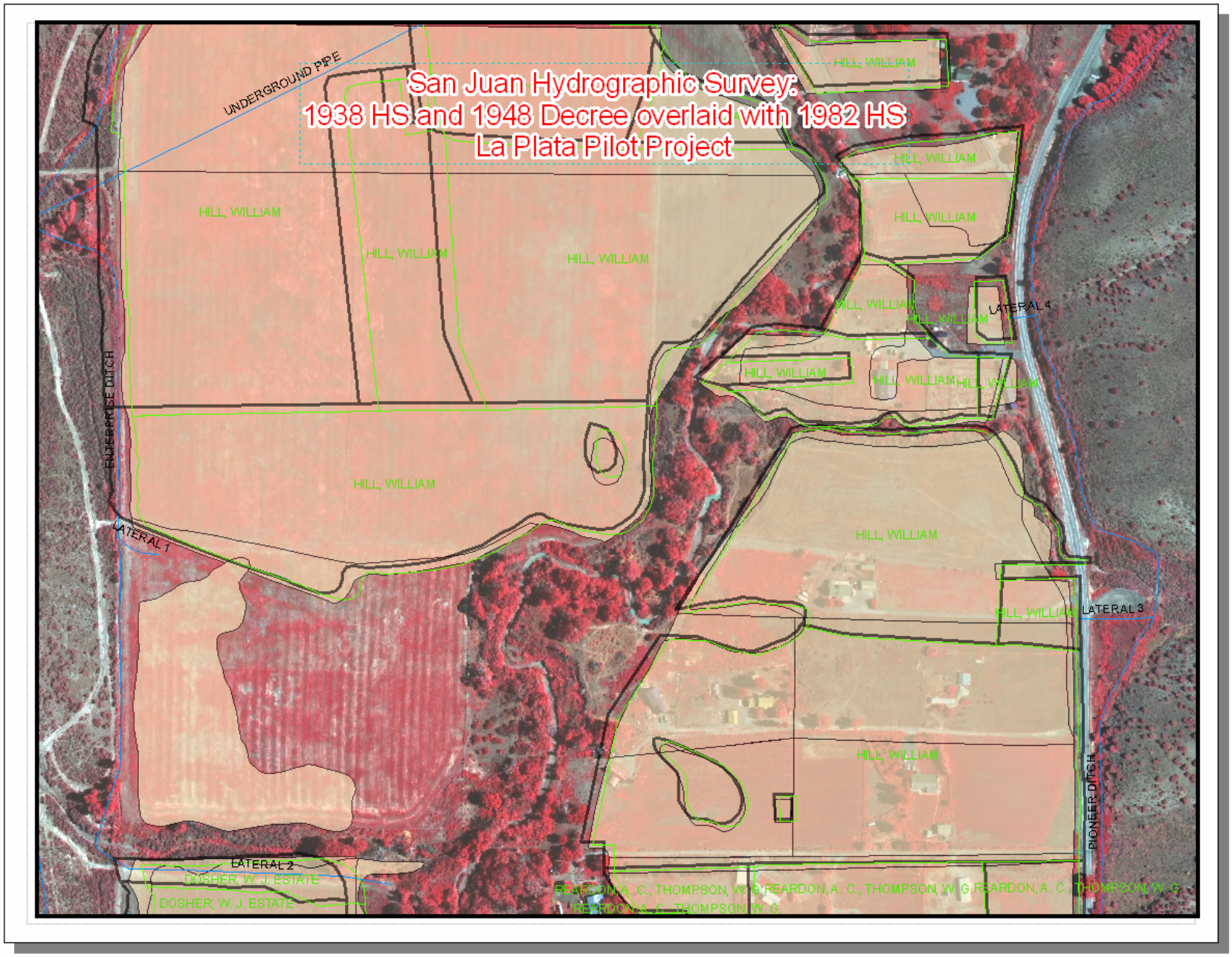

San Juan Hydrographic Survey :
2003 Digital Imagery,
SJ Co. Data
La Plata Pilot Project
UNDERGROUND PIPE
ENTERPRISE DITCH
LATERAL 2
LATERAL 3
PIONEER DITCH

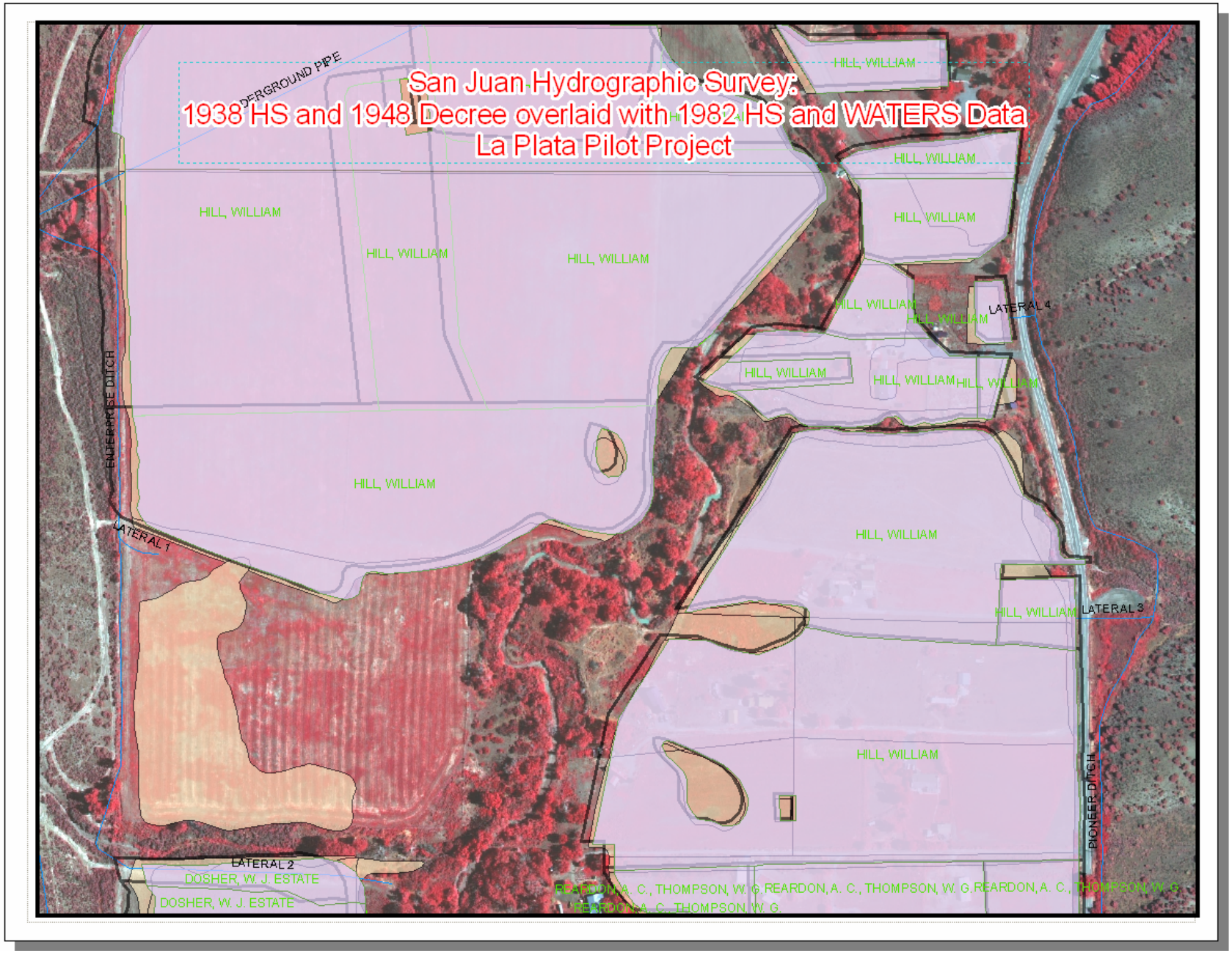


Blue Ribbon Water Task Force
DRB - 23Mar05

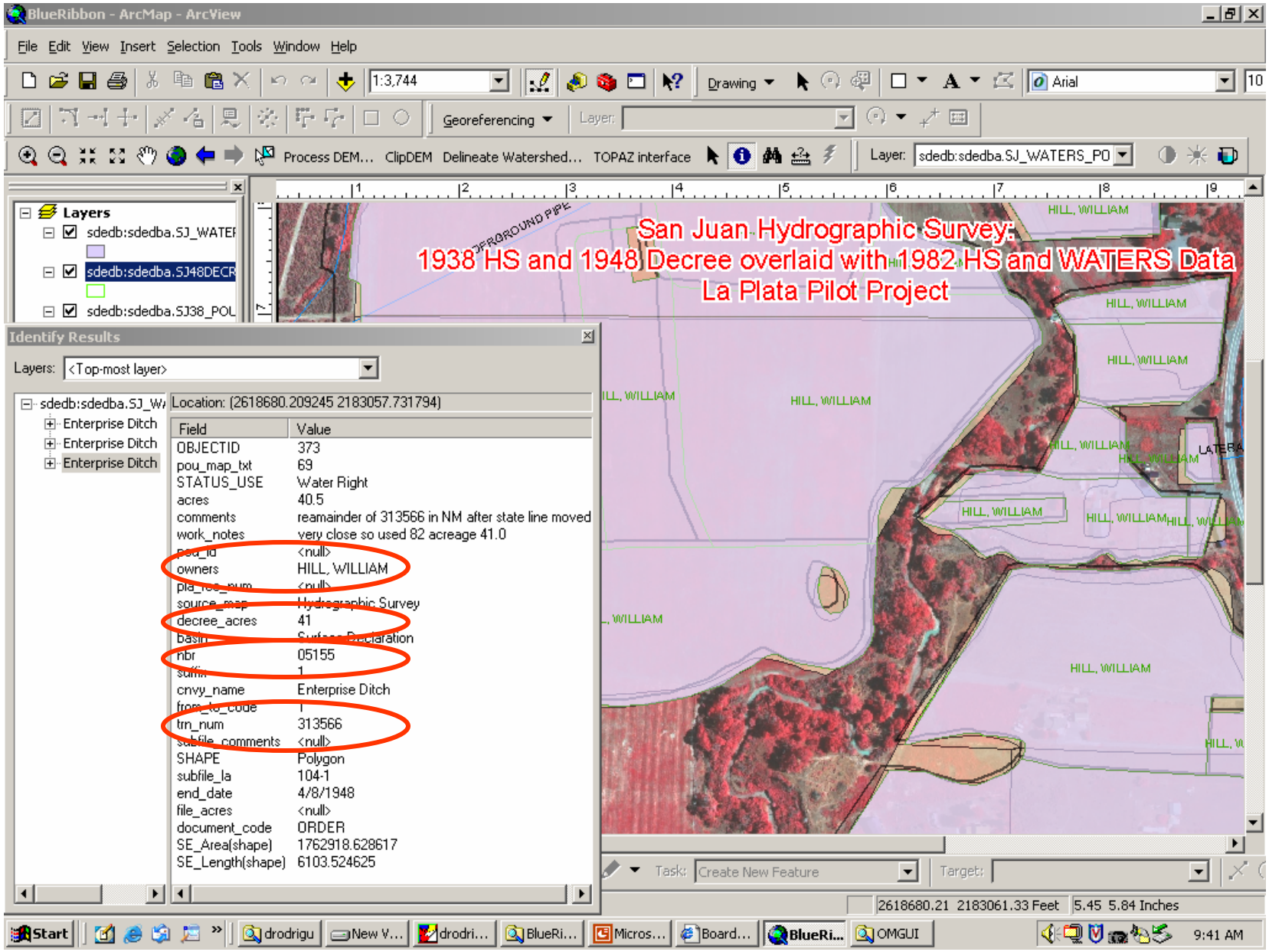


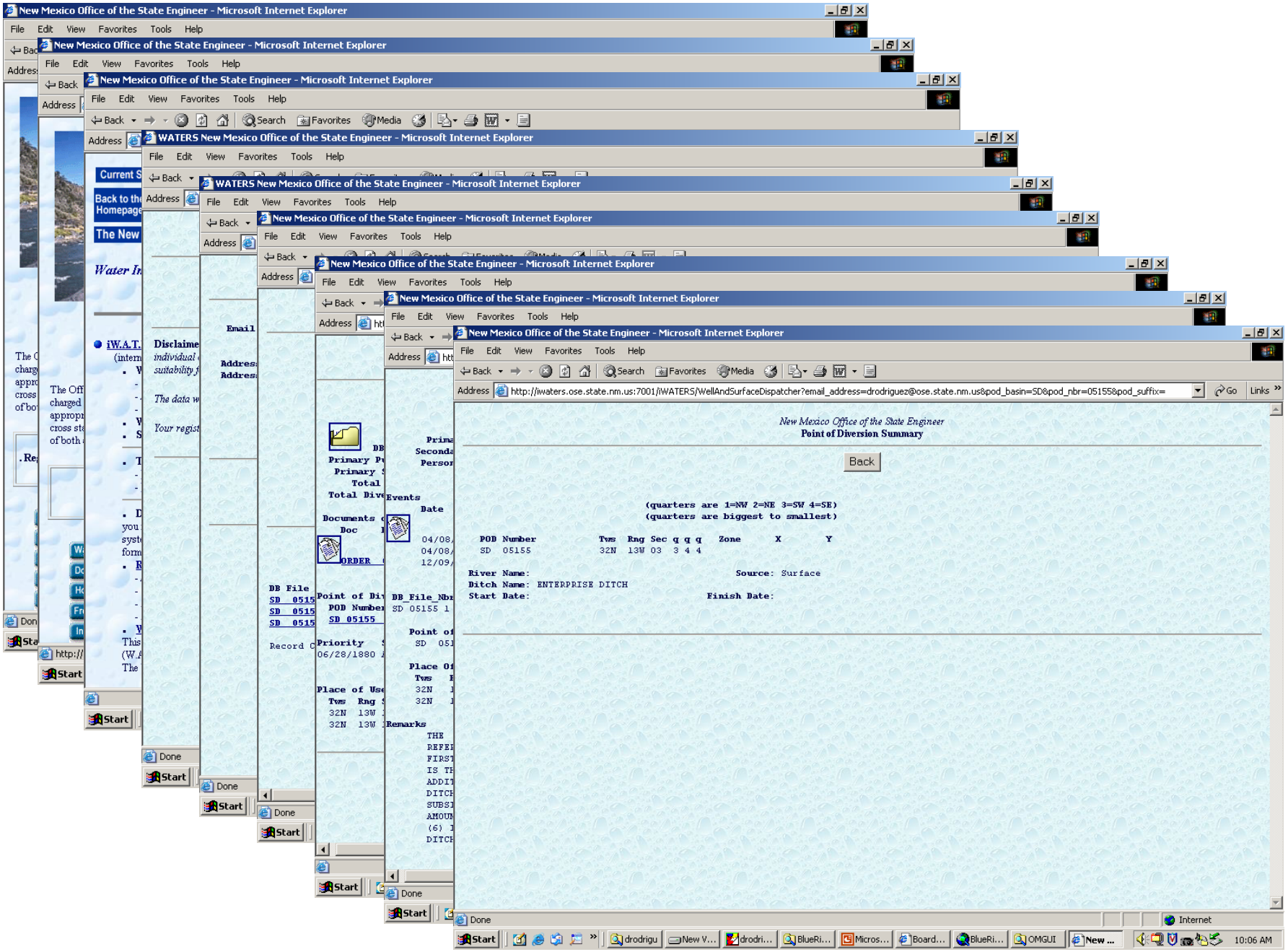
Blue Ribbon Water Task Force
DRB - 23Mar05

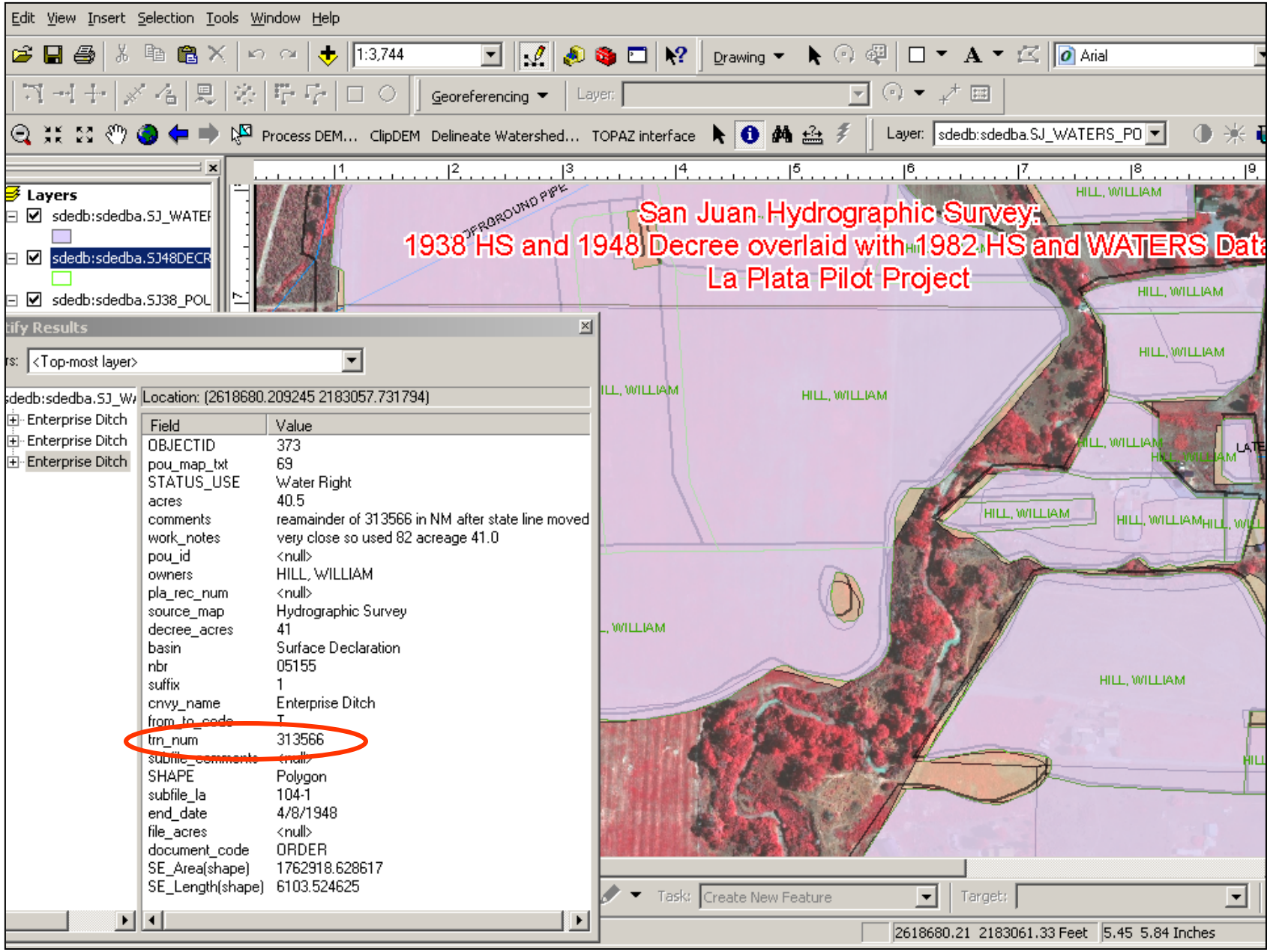

San Juan Hydrographic Survey:
1938 HS and 1948 Decree overlaid with 1982 HS
La Plata Pilot Project
UNDERGROUND PIPE
ENTERPRISE DITCH
LATERAL 1
LATERAL 2
LATERAL 3
LATERAL 4
PIONEER DITCH
HILL, WILLIAM
DOSHER, W. J. ESTATE
REARDON, A. C., THOMPSON, W. G.

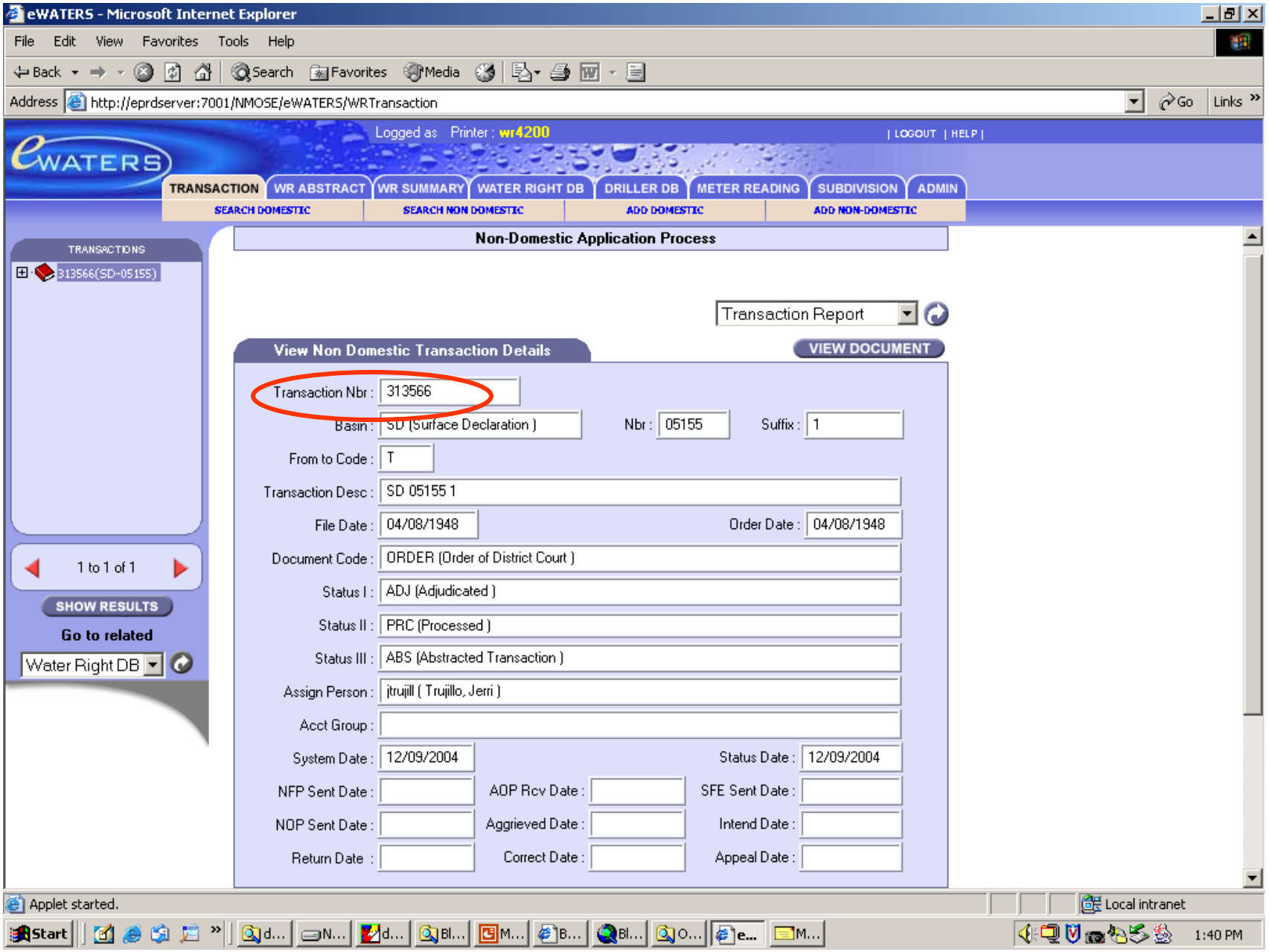


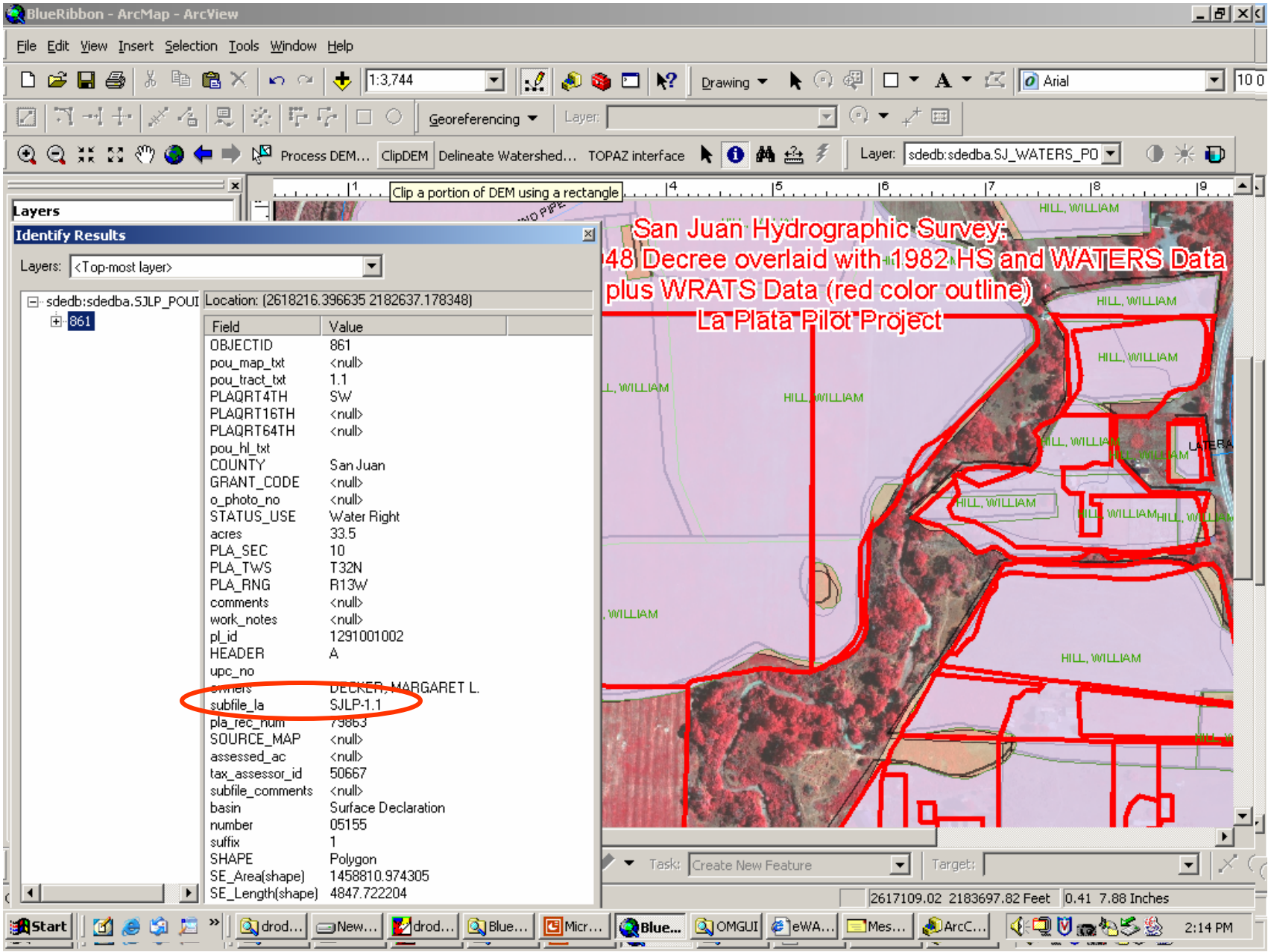
Blue Ribbon Water Task Force
DRB - 23Mar05

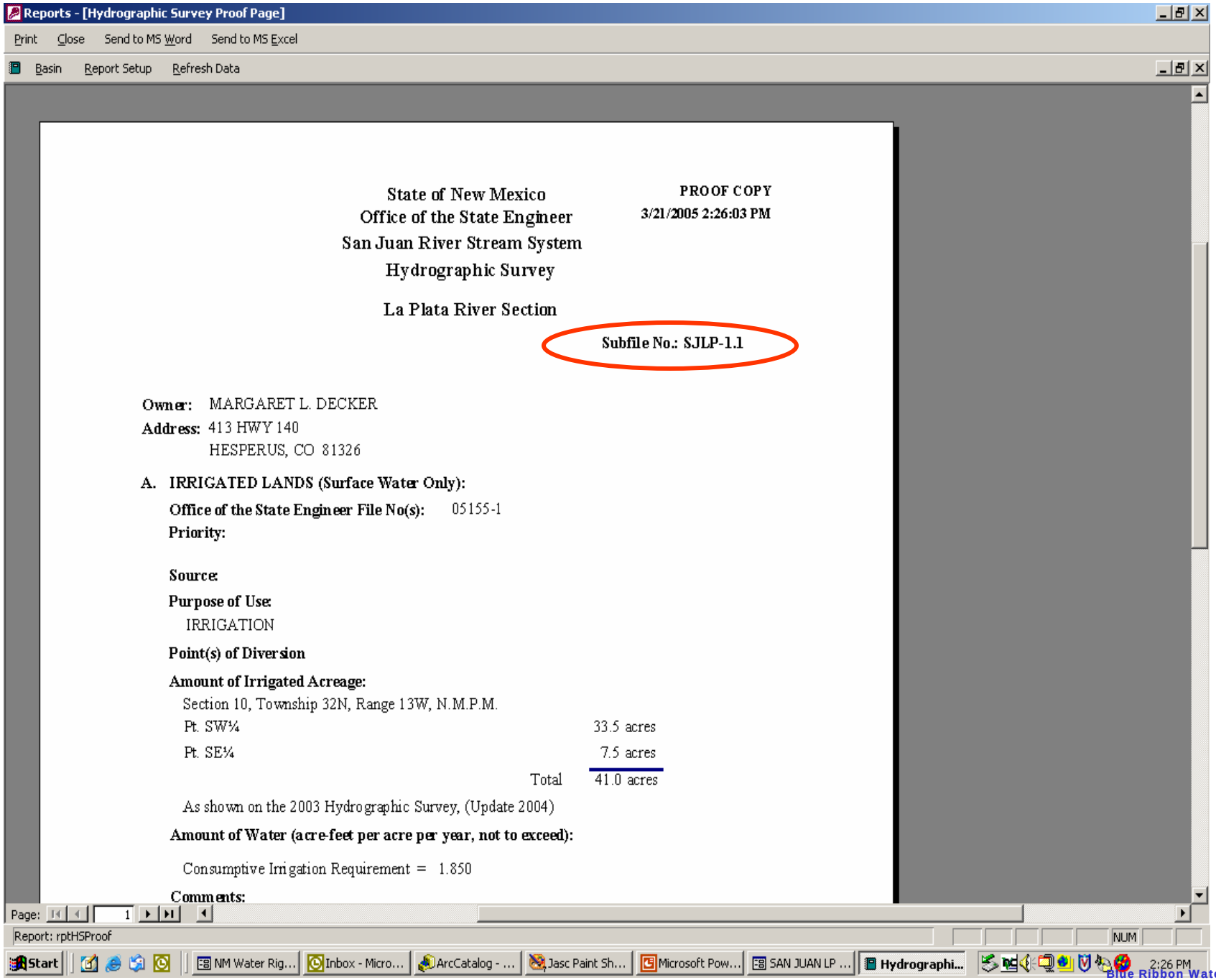

BlueRibbon - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
Process DEM... ClipDEM Delineate Watershed... TOPAZ interface
Layers
sdedb:sdedba.SJ_WATER
sdedb:sdedba.SJ48DECR
sdedb:sdedba.SJ38_POL
San Juan Hydrographic Survey:
1938 HS and 1948 Decree overlaid with 1982 HS and WATERS Data
La Plata Pilot Project
Identify Results
Layers: <Top-most layer>
Location: (2618680.209245 2183057.731794)
Enterprise Ditch
Enterprise Ditch
Enterprise Ditch
Field Value
OBJECTID 373
pou_map_txt 69
STATUS_USE Water Right
acres 40.5
comments reamainder of 313566 in NM after state line moved
work_notes very close so used 82 acreage 41.0
owners HILL, WILLIAM
source_map Hydrographic Survey
decree_acres 41
nbr 05155
cnvy_name Enterprise Ditch
trn_num 313566
SHAPE Polygon
subfile_la 104-1
end_date 4/8/1948
file_acres <null>
document_code ORDER
SE_Area(shape) 1762918.628617
SE_Length(shape) 6103.524625
HILL, WILLIAM
Task: Create New Feature
Target:
2618680.21 2183061.33 Feet
5.45 5.84 Inches
Start
9:41 AM


New Mexico Office of the State Engineer - Microsoft Internet Explorer
WATERS New Mexico Office of the State Engineer - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher?email_address=drodriguez@ose.state.nm.us&pod_basin=SD&pod_nbr=05155&pod_suffix=
Go Links
New Mexico Office of the State Engineer
Point of Diversion Summary
Back
(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)
POD Number Tws Rng Sec q q q Zone X Y
SD 05155 32N 13W 03 3 4 4
River Name: Source: Surface
Ditch Name: ENTERPRISE DITCH
Start Date: Finish Date:
Done
Internet
Start
10:06 AM


Edit View Insert Selection Tools Window Help
1:3,744
Drawing
Arial
Georeferencing
Layer:
Process DEM...
ClipDEM
Delineate Watershed...
TOPAZ interface
Layer: sdedb:sdedba.SJ_WATERS_PO
Layers
sdedb:sdedba.SJ_WATE
sdedb:sdedba.SJ48DECR
sdedb:sdedba.SJ38_POL
San Juan Hydrographic Survey:
1938 HS and 1948 Decree overlaid with 1982 HS and WATERS Data
La Plata Pilot Project
HILL, WILLIAM
tify Results
<Top-most layer>
Location: (2618680.209245 2183057.731794)
Enterprise Ditch
Enterprise Ditch
Enterprise Ditch
Field
Value
OBJECTID 373
pou_map_txt 69
STATUS_USE Water Right
acres 40.5
comments reamainder of 313566 in NM after state line moved
work_notes very close so used 82 acreage 41.0
pou_id <null>
owners HILL, WILLIAM
pla_rec_num <null>
source_map Hydrographic Survey
decree_acres 41
basin Surface Declaration
nbr 05155
suffix 1
cnvy_name Enterprise Ditch
trn_num 313566
SHAPE Polygon
subfile_la 104-1
end_date 4/8/1948
file_acres <null>
document_code ORDER
SE_Area(shape) 1762918.628617
SE_Length(shape) 6103.524625
Task: Create New Feature
Target:
2618680.21 2183061.33 Feet
5.45 5.84 Inches


eWATERS - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://eprdserver:7001/NMOSE/eWATERS/WRTransaction
Go Links
eWATERS
Logged as Printer : wr4200
| LOGOUT | HELP |
TRANSACTION
WR ABSTRACT
WR SUMMARY
WATER RIGHT DB
DRILLER DB
METER READING
SUBDIVISION
ADMIN
SEARCH DOMESTIC
SEARCH NON DOMESTIC
ADD DOMESTIC
ADD NON-DOMESTIC
TRANSACTIONS
313566(SD-05155)
1 to 1 of 1
SHOW RESULTS
Go to related
Water Right DB
Non-Domestic Application Process
Transaction Report
View Non Domestic Transaction Details
VIEW DOCUMENT
Transaction Nbr : 313566
Basin : SD (Surface Declaration)
Nbr : 05155
Suffix : 1
From to Code : T
Transaction Desc : SD 05155 1
File Date : 04/08/1948
Order Date : 04/08/1948
Document Code : ORDER (Order of District Court)
Status I : ADJ (Adjudicated)
Status II : PRC (Processed)
Status III : ABS (Abstracted Transaction)
Assign Person : jtrujill (Trujillo, Jerri)
Acct Group :
System Date : 12/09/2004
Status Date : 12/09/2004
NFP Sent Date :
AOP Rcv Date :
SFE Sent Date :
NOP Sent Date :
Aggrieved Date :
Intend Date :
Return Date :
Correct Date :
Appeal Date :
Applet started.
Local intranet
Start
1:40 PM


BlueRibbon - ArcMap - ArcView
File Edit View Insert Selection Tools Window Help
Process DEM... ClipDEM Delineate Watershed... TOPAZ interface
Clip a portion of DEM using a rectangle
Layers
Identify Results
Layers: <Top-most layer>
sdedb:sdedba.SJLP_POUI
861
Location: (2618216.396635 2182637.178348)
Field Value
OBJECTID 861
pou_map_txt <null>
pou_tract_txt 1.1
PLAQRT4TH SW
PLAQRT16TH <null>
PLAQRT64TH <null>
pou_hl_txt
COUNTY San Juan
GRANT_CODE <null>
o_photo_no <null>
STATUS_USE Water Right
acres 33.5
PLA_SEC 10
PLA_TWS T32N
PLA_RNG R13W
comments <null>
work_notes <null>
pl_id 1291001002
HEADER A
upc_no
owners DECKER, MARGARET L.
subfile_la SJLP-1.1
pla_rec_num 75863
SOURCE_MAP <null>
assessed_ac <null>
tax_assessor_id 50667
subfile_comments <null>
basin Surface Declaration
number 05155
suffix 1
SHAPE Polygon
SE_Area(shape) 1458810.974305
SE_Length(shape) 4847.722204
San Juan Hydrographic Survey:
48 Decree overlaid with 1982 HS and WATERS Data
plus WRATS Data (red color outline)
La Plata Pilot Project
HILL, WILLIAM
Task: Create New Feature
Target:
2617109.02 2183697.82 Feet
0.41 7.88 Inches
Start
2:14 PM


Reports - [Hydrographic Survey Proof Page]
Print
Close
Send to MS Word
Send to MS Excel
Basin
Report Setup
Refresh Data
State of New Mexico
Office of the State Engineer
San Juan River Stream System
Hydrographic Survey
La Plata River Section
PROOF COPY
3/21/2005 2:26:03 PM
Subfile No.: SJLP-1.1
Owner: MARGARET L. DECKER
Address: 413 HWY 140
HESPERUS, CO 81326
A. IRRIGATED LANDS (Surface Water Only):
Office of the State Engineer File No(s): 05155-1
Priority:
Source:
Purpose of Use:
IRRIGATION
Point(s) of Diversion
Amount of Irrigated Acreage:
Section 10, Township 32N, Range 13W, N.M.P.M.
Pt. SW¼ 33.5 acres
Pt. SE¼ 7.5 acres
Total 41.0 acres
As shown on the 2003 Hydrographic Survey, (Update 2004)
Amount of Water (acre-feet per acre per year, not to exceed):
Consumptive Irrigation Requirement = 1.850
Comments:
Page: 1
Report: rptHSProof
NUM
Start
NM Water Rig...
Inbox - Micro...
ArcCatalog - ...
Jasc Paint Sh...
Microsoft Pow...
SAN JUAN LP ...
Hydrographi...
2:26 PM