

KEY PLAN

LEGEND

- FENCE (CATTLE)
- FENCE (CHAIN LINK)
- LEASE BOUNDARY
- ADIT
- GATE

PIPELINE ROAD



REFERENCE:  
SATELLITE IMAGERY BY INTRASEARCH INC.  
MAPMART 06-09-2010

ELLIOTT LAND SURVEYOR APRIL 2011  
TOPOGRAPHIC SURVEY OF CR1 AND  
CR1E SITES

PROJECT PHASE

AREA

PROPRIETARY INFORMATION:  
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PROJECT NO.	DSN	BY	DDMMYY
350180	DRN	PAF	
SCALE	CHK		
1" = 200'	APP		

SUBJECT  
RIO ALGOM MINING LLC  
CHURCH ROCK MINE SITE

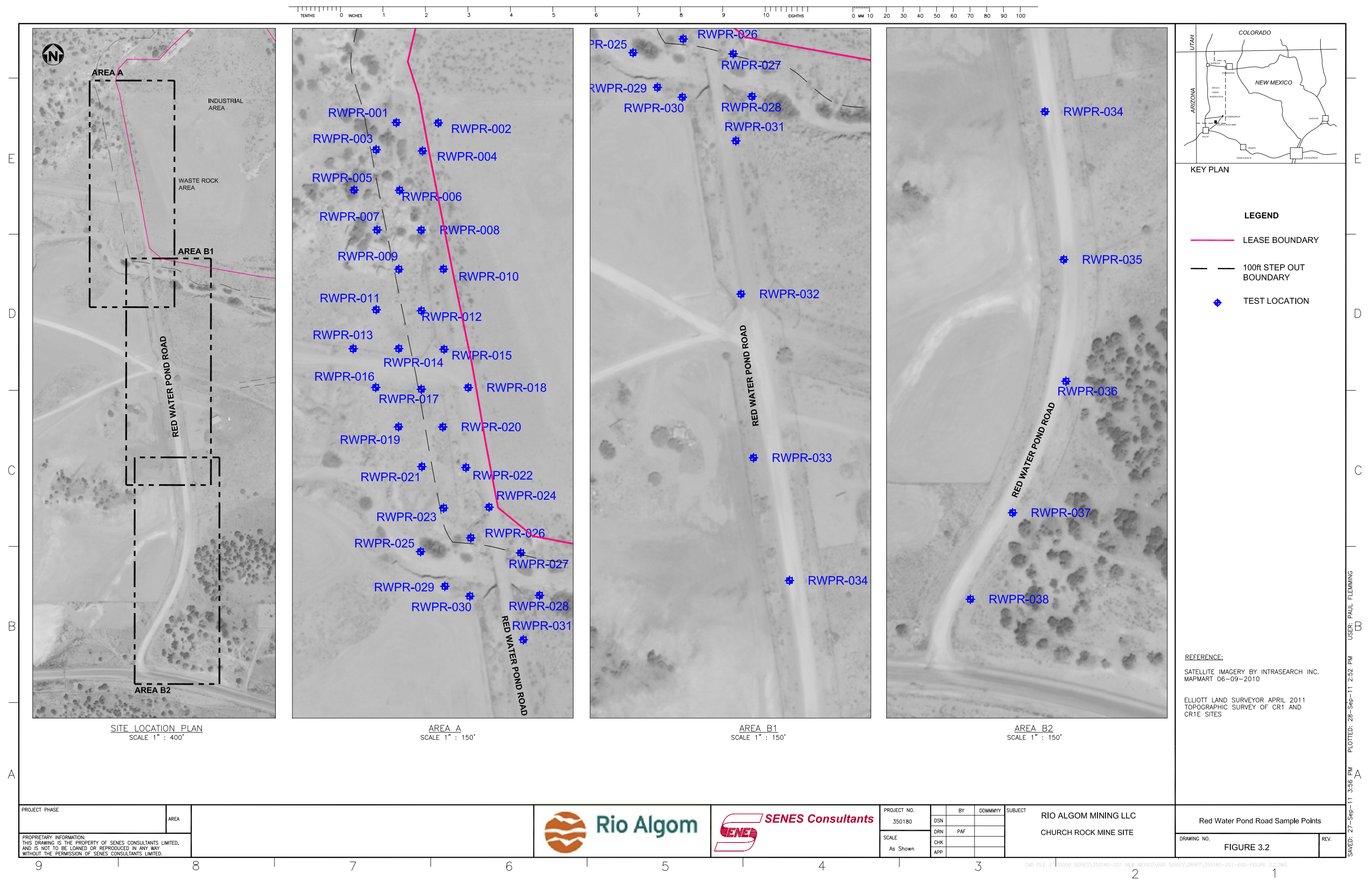
Fencing Plan at CR 1E

DRAWING NO.  
FIGURE 3.1b

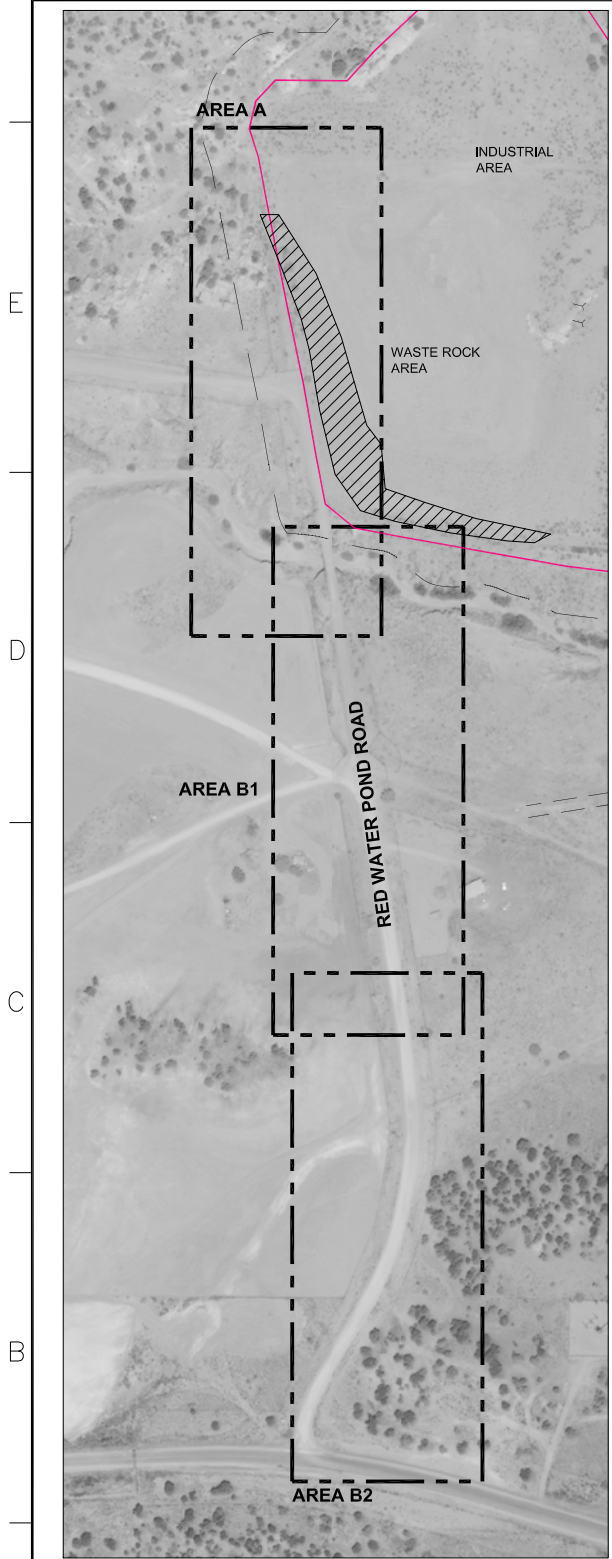
REV.

SAVED: 19-Aug-11 10:08 AM PLOTTED: 28-Sep-11 2:50 PM USER: PAUL FLEMMING

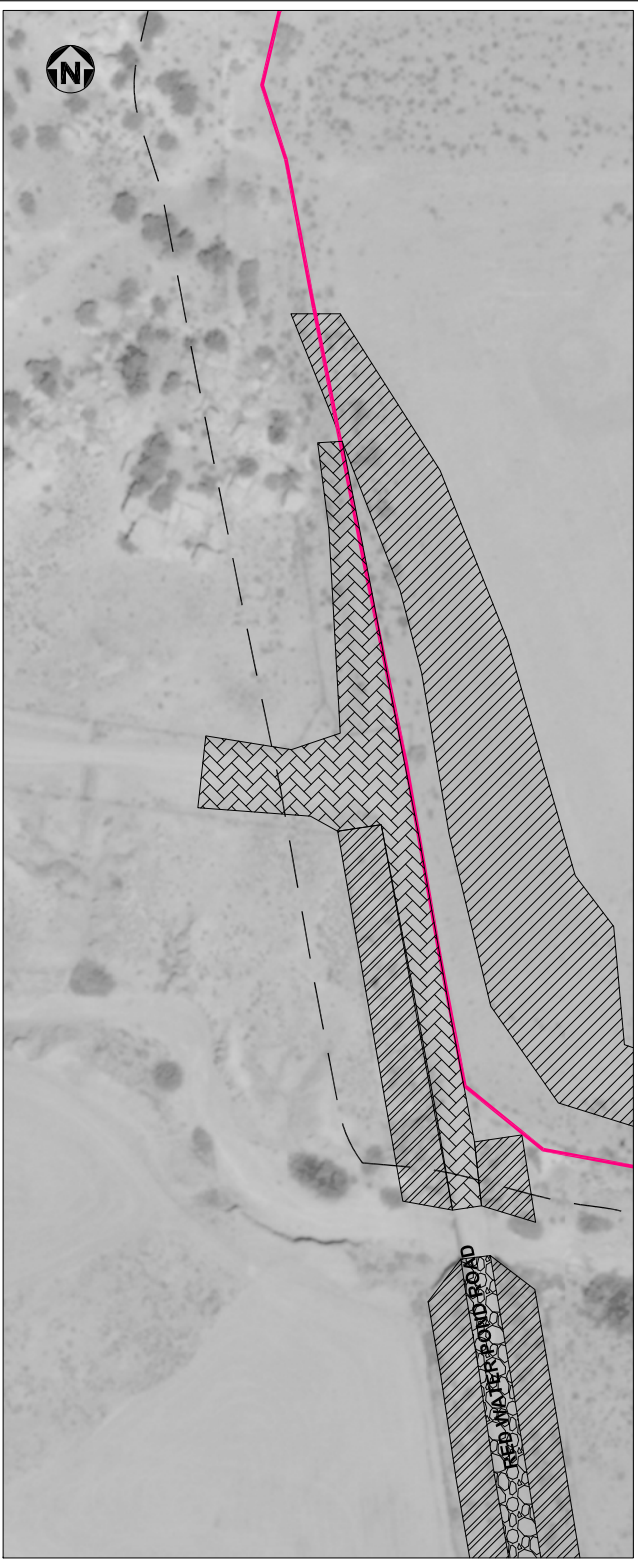




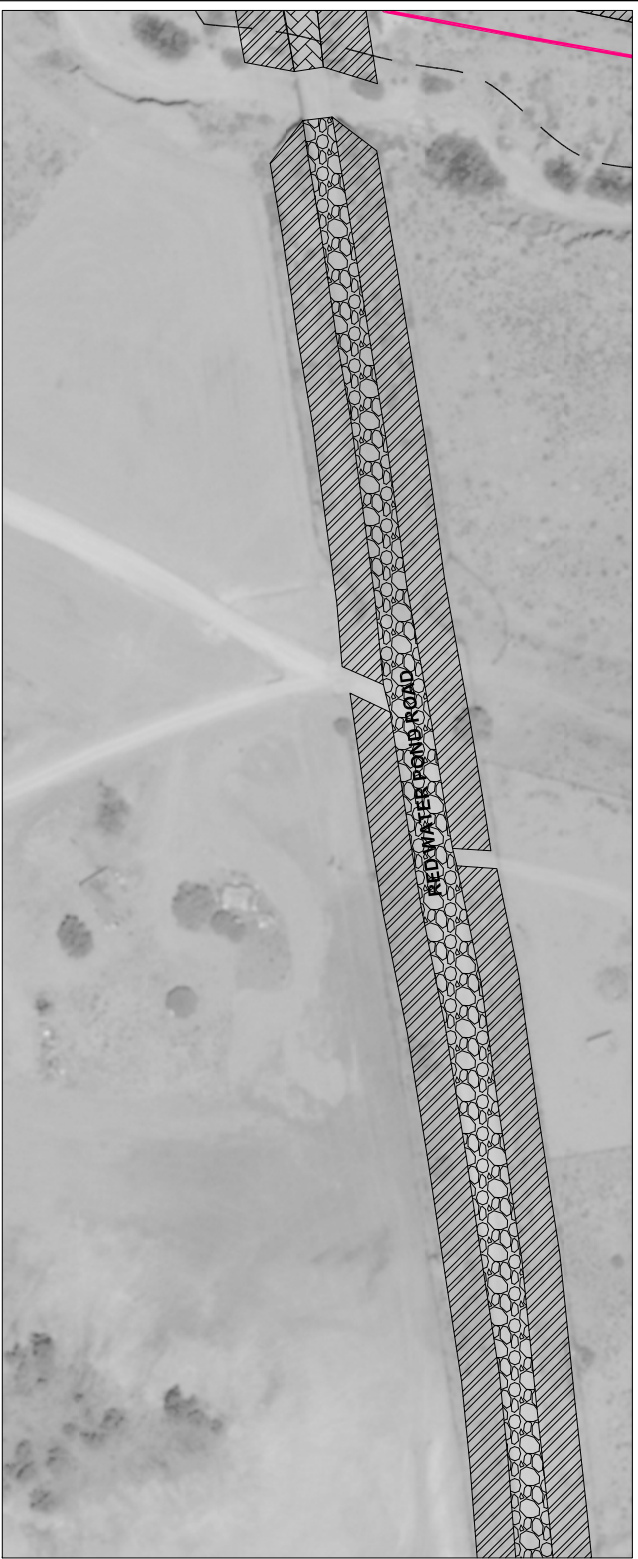




SITE LOCATION PLAN  
SCALE 1" : 400'



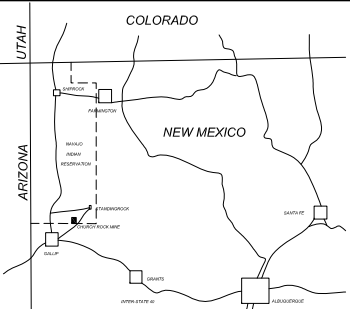
AREA A  
SCALE 1" : 150'



AREA B1  
SCALE 1" : 150'



AREA B2  
SCALE 1" : 150'



KEY PLAN

- LEGEND**
- LEASE BOUNDARY
  - 100ft STEP OUT BOUNDARY
  - SLOPE STABILIZATION EROSION CONTROL TO DECEMBER 2010
  - SOIL SEALANT ON RWPR
  - CHIP SEAL ON RWPR FROM BRIDGE TO 566
  - ROAD SEALANT NORTH OF BRIDGE

REFERENCE:  
SATELLITE IMAGERY BY INTRASEARCH INC.  
MAPMART 06-09-2010

ELLIOTT LAND SURVEYOR APRIL 2011  
TOPOGRAPHIC SURVEY OF CR1 AND  
CR1E SITES

PROJECT PHASE	AREA
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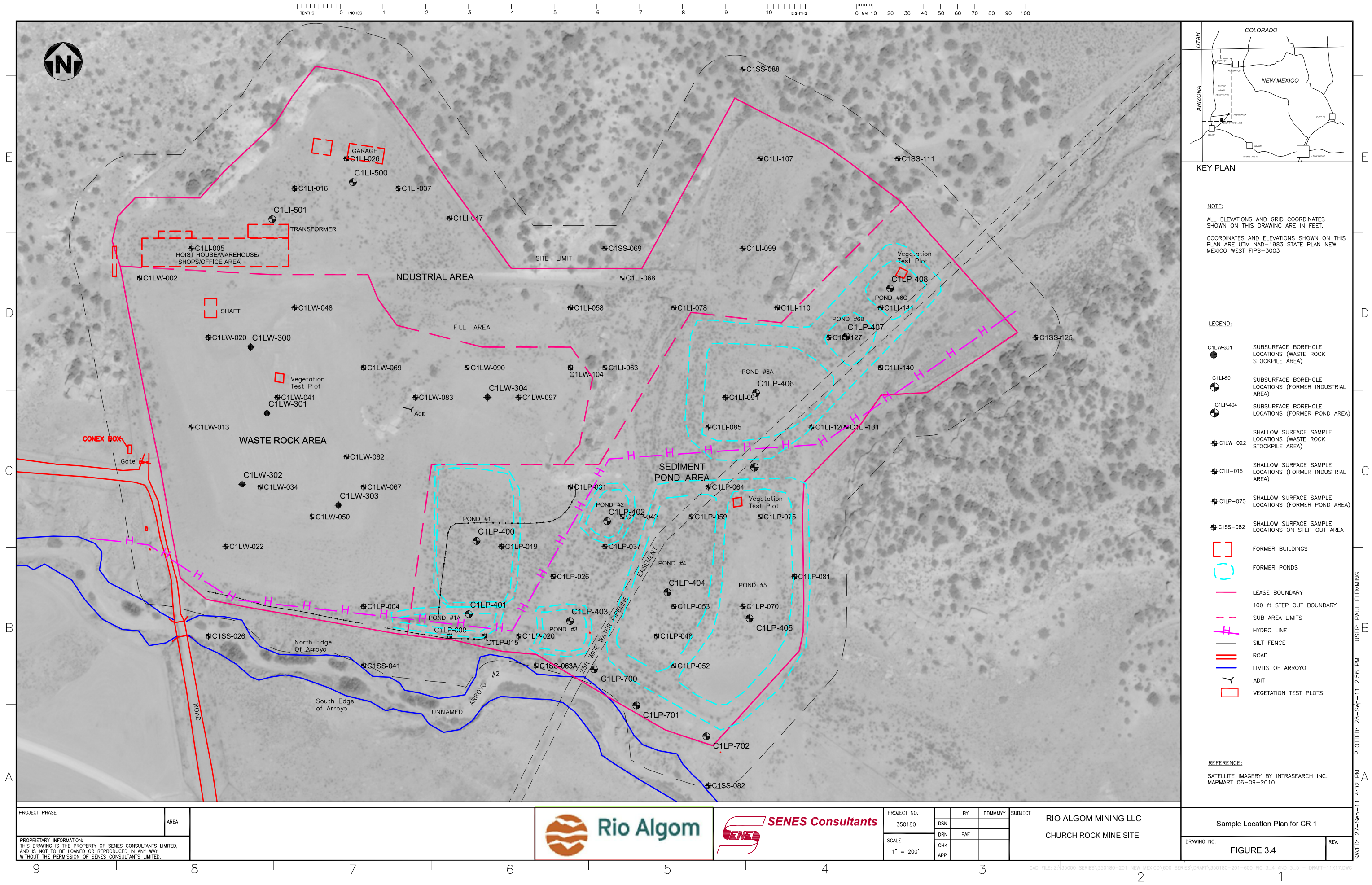
PROJECT NO. 350180	BY DSN	DDMMYY
SCALE 1" = 200'	DRN PAF	
	CHK	
	APP	

RIO ALGOM MINING LLC  
CHURCH ROCK MINE SITE

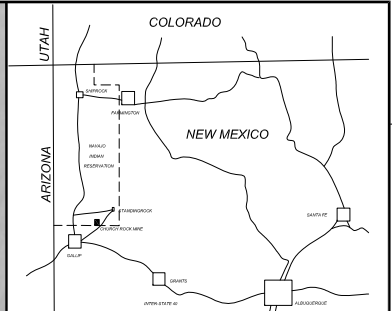
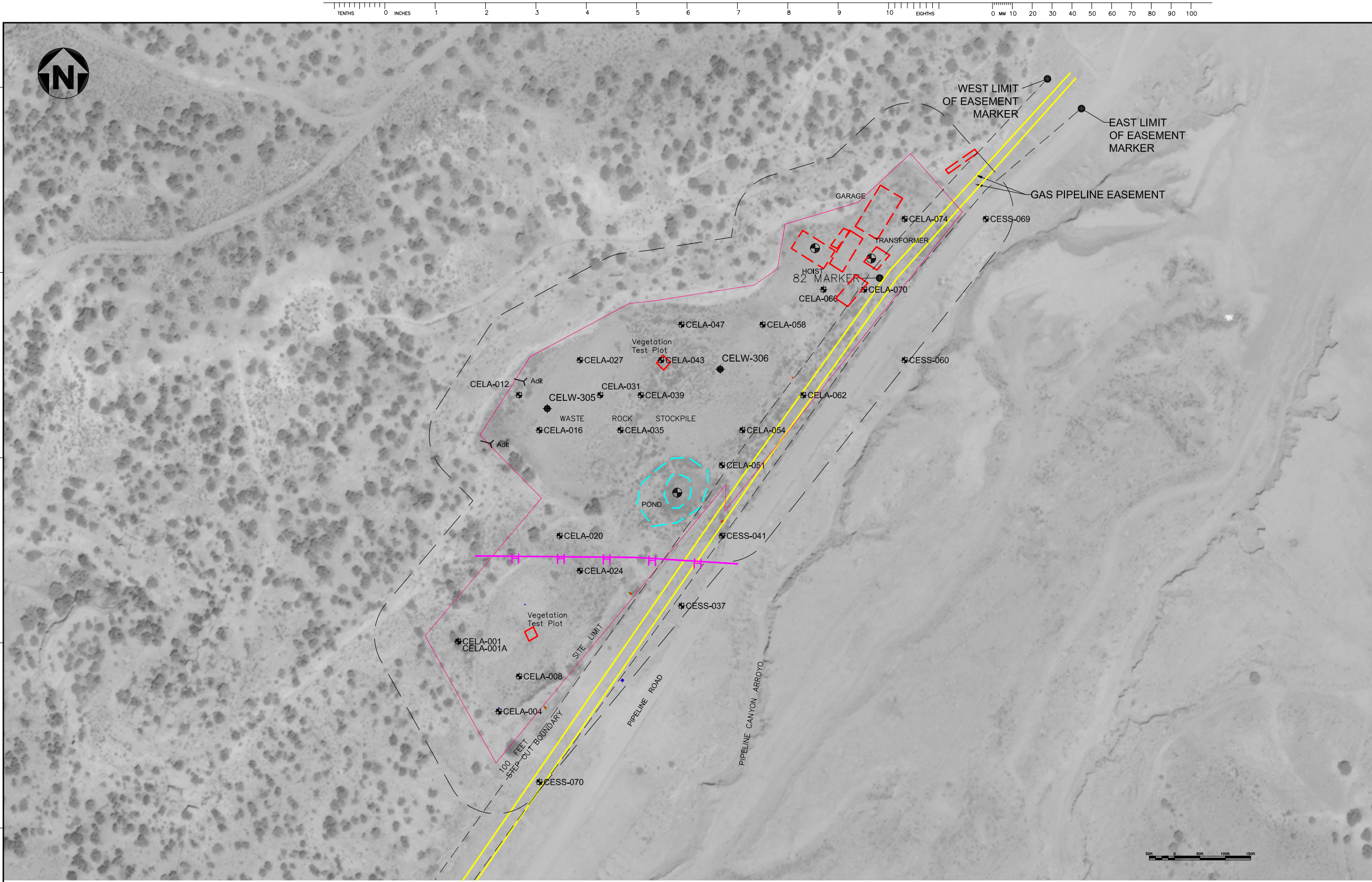
Erosion Control of Waste Rock Pile and Road Surface	
DRAWING NO. FIGURE 3.3	REV.

SAVED: 28-Sep-11 10:19 AM PLOTTED: 28-Sep-11 2:53 PM USER: PAUL FLEMING









KEY PLAN

ALL ELEVATIONS AND GRID COORDINATES SHOWN ON THIS DRAWING ARE IN FEET.

COORDINATES AND ELEVATIONS SHOWN ON THIS PLAN ARE UTM NAD-1983 STATE PLAN NEW MEXICO WEST FIPS-3003

- LEGEND:**
- CELW-305 SUBSURFACE BOREHOLE LOCATIONS (WASTE ROCK STOCKPILE AREA)
  - CELW-306 SUBSURFACE BOREHOLE LOCATIONS (WASTE ROCK STOCKPILE AREA)
  - CELA-001 SUBSURFACE BOREHOLE LOCATIONS (FORMER INDUSTRIAL AREA)
  - CELA-001A SUBSURFACE BOREHOLE LOCATIONS (FORMER INDUSTRIAL AREA)
  - CELA-004 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-008 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-012 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-016 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-020 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-024 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-027 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-031 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-035 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-039 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-043 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-047 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-051 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-054 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-058 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-060 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-062 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-066 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-070 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CELA-074 SUBSURFACE BOREHOLE LOCATIONS (FORMER POND AREA)
  - CESS-037 SHALLOW SURFACE SAMPLE LOCATIONS ON LEASED LANDS
  - CESS-041 SHALLOW SURFACE SAMPLE LOCATIONS ON LEASED LANDS
  - CESS-060 SHALLOW SURFACE SAMPLE LOCATIONS ON STEP OUT AREA
  - CESS-069 SHALLOW SURFACE SAMPLE LOCATIONS ON STEP OUT AREA
  - CESS-070 SHALLOW SURFACE SAMPLE LOCATIONS ON STEP OUT AREA
  - FORMER BUILDINGS
  - FORMER PONDS
  - LEASE BOUNDARY
  - 100 ft STEP OUT BOUNDARY
  - PIPELINE EASEMENT AND PIPELINES
  - ADIT
  - HYDRO POWER LINE
  - VEGETATION TEST PLOT

**NOTE:**

MINE SITE 1E UTILITIES EASEMENT HAS TO BE FIELD VERIFIED BY UTILITIES COMPANY.

**REFERENCE:**

SATELLITE IMAGERY BY INTRASEARCH INC. MAPMART 06-09-2010

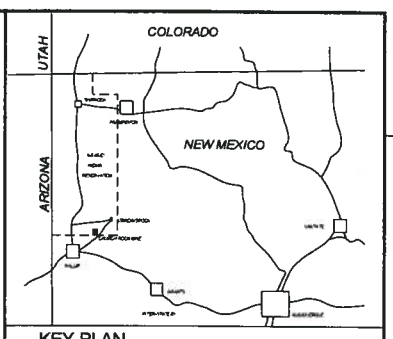
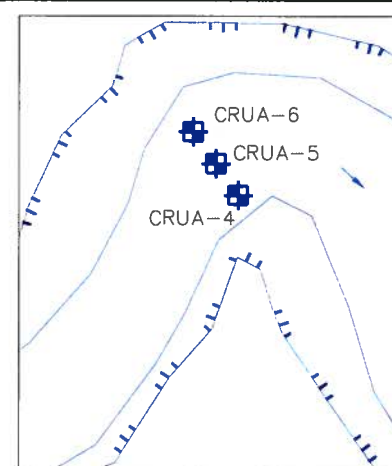
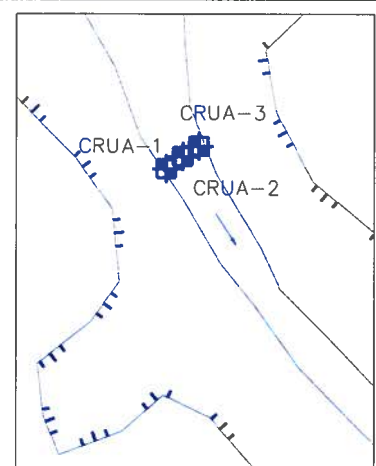
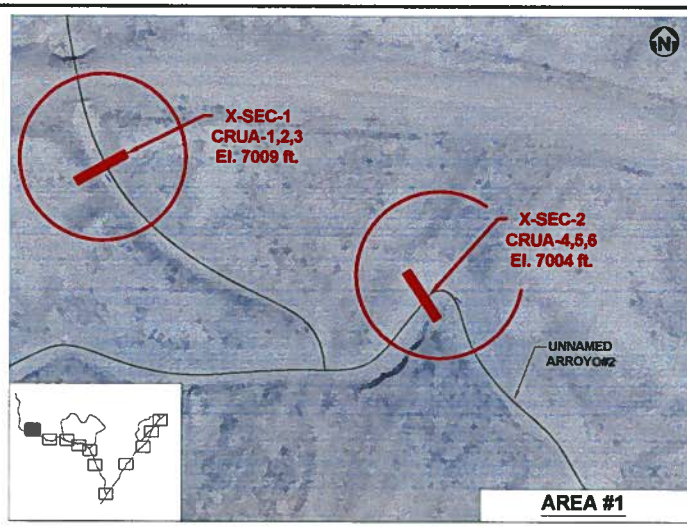
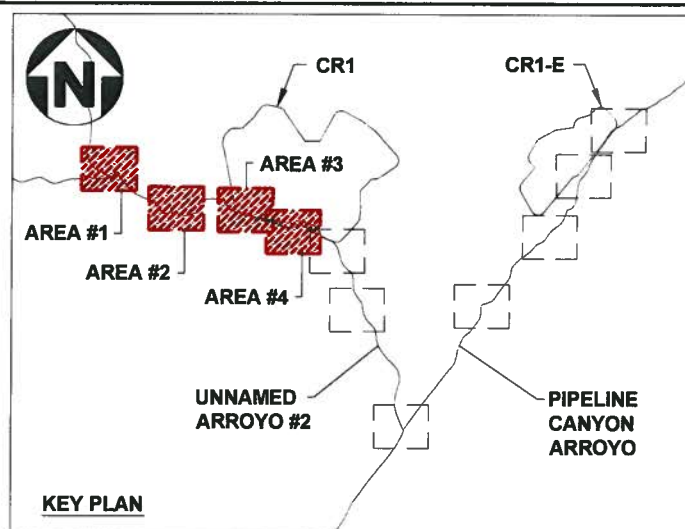
PROJECT PHASE	AREA
PROPRIETARY INFORMATION: THIS DRAWING IS THE PROPERTY OF SENES CONSULTANTS LIMITED, AND IS NOT TO BE LOANED OR REPRODUCED IN ANY WAY WITHOUT THE PERMISSION OF SENES CONSULTANTS LIMITED.	



PROJECT NO. 350180	BY DSN	DDMMYY PAF	SUBJECT RIO ALGOM MINING LLC CHURCH ROCK MINE SITE
SCALE 1" = 200'	CHK APP		

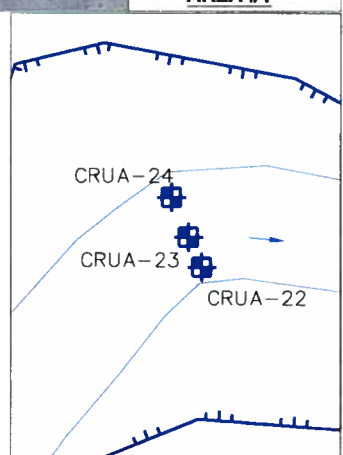
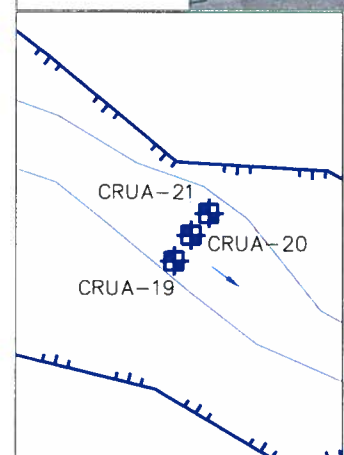
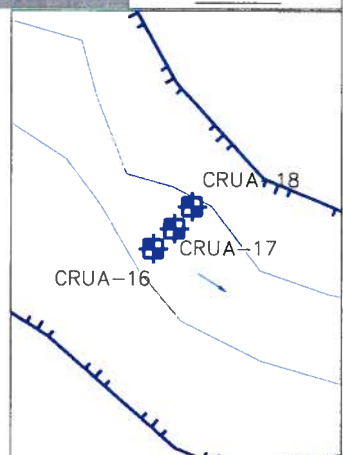
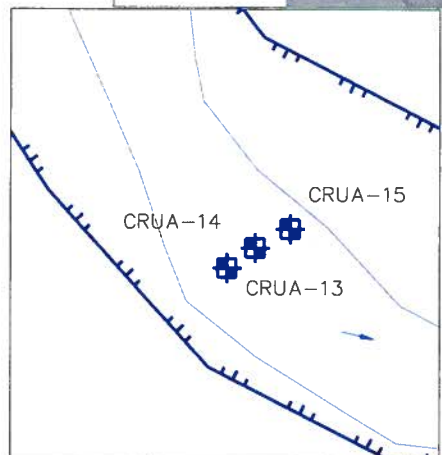
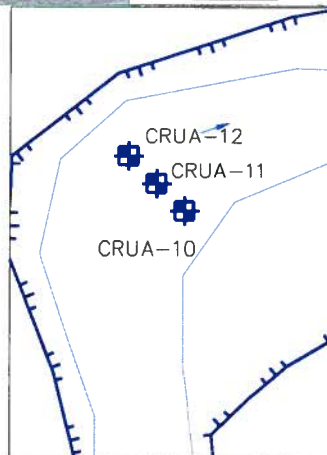
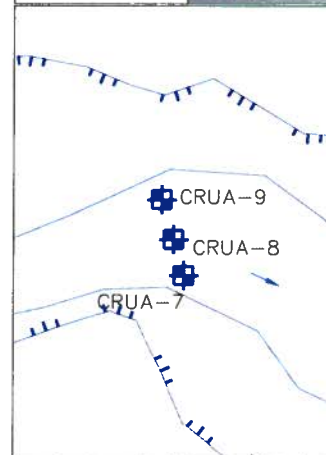
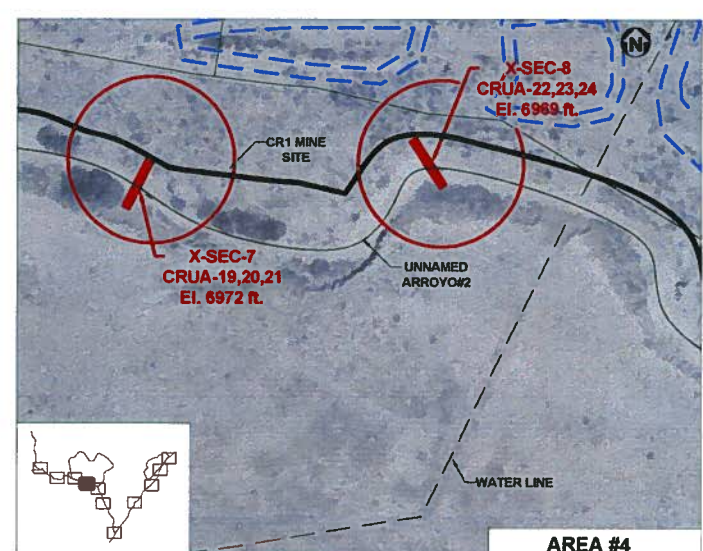
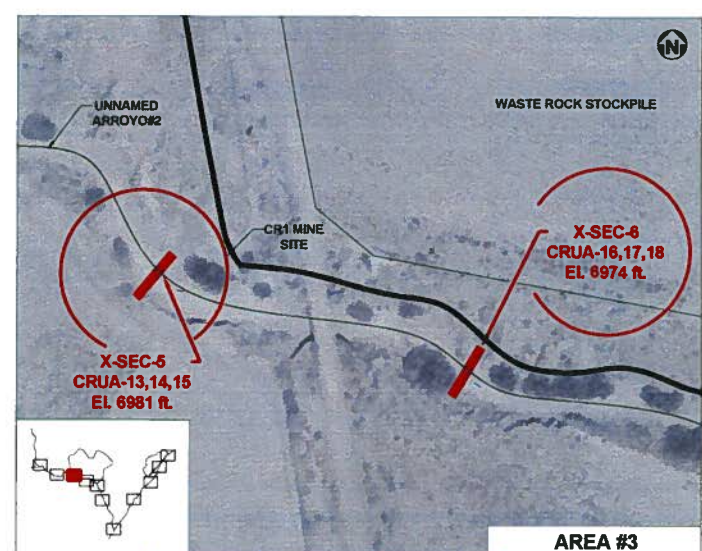
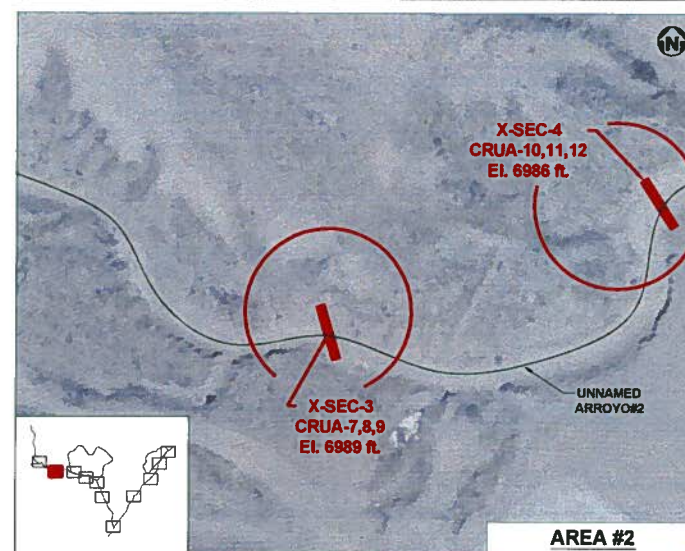
Sample Location Plan for CR 1E	
DRAWING NO. FIGURE 3.5	REV.





LEGEND

- CRUA-016 SHALLOW SURFACE SAMPLE LOCATIONS
- TOP OF ARROYO
- BASE OF ARROYO
- DOWN GRADIENT DIRECTION



REFERENCE:

SATELLITE IMAGERY BY INTRASEARCH INC.  
MAPMART 06-09-2010  
ELLIOTT LAND SURVEYOR APRIL 2011  
TOPOGRAPHIC SURVEY OF CR1 AND  
CR1E SITES

PROJECT PHASE	AREA
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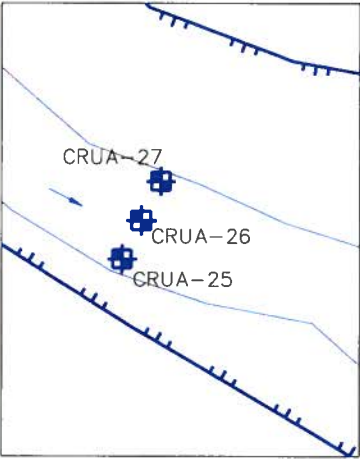
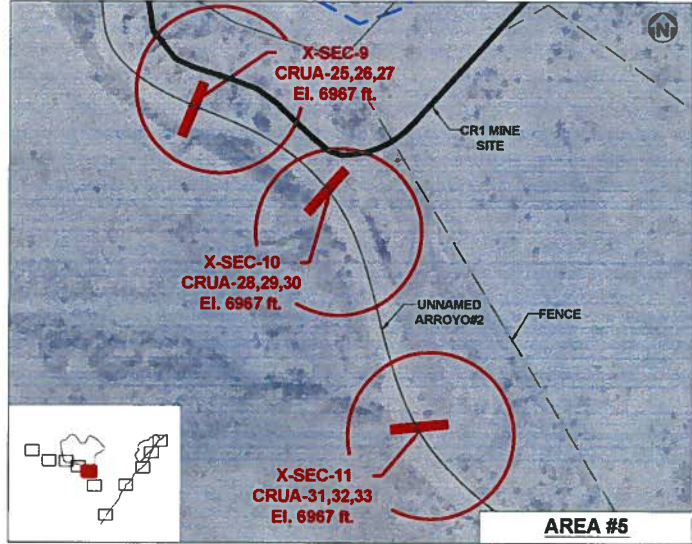
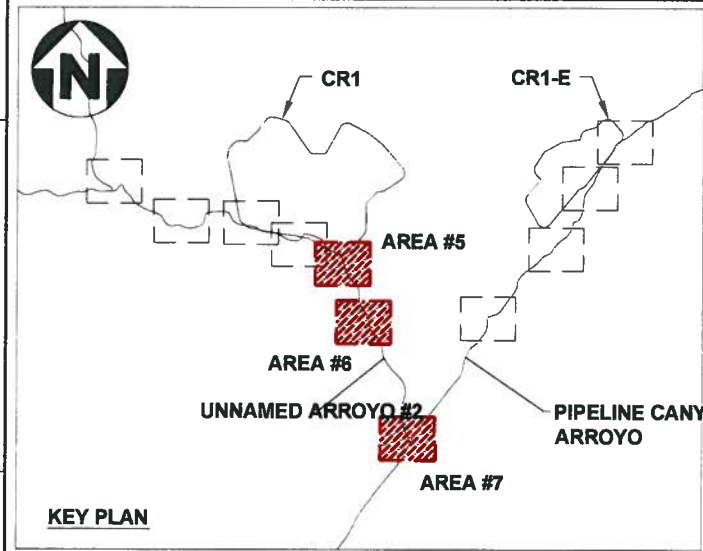


PROJECT NO.	BY	DATE	SUBJECT
350180	DSN		RIO ALGOM MINING LLC
SCALE	CHK	APP	
1" = 50'			CHURCH ROCK MINE SITE

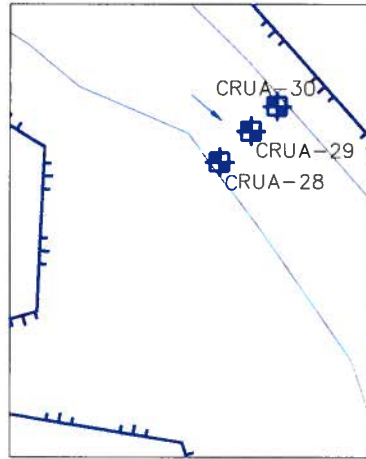
Sample Location Plan for Unnamed Arroyo #2 (Part 1 of 2)	
DRAWING NO.	REV.
FIGURE 3.8	

SAVED: 28-Sep-11 10:42 AM PLOTTED: 28-Sep-11 3:03 PM USER: PAUL FLEMING

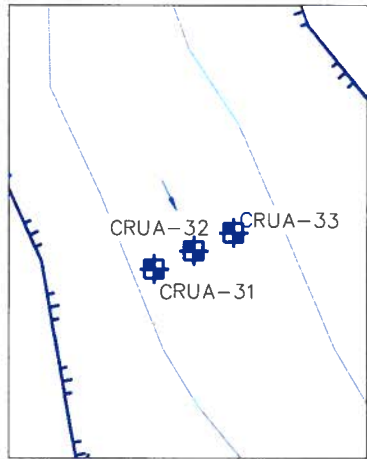




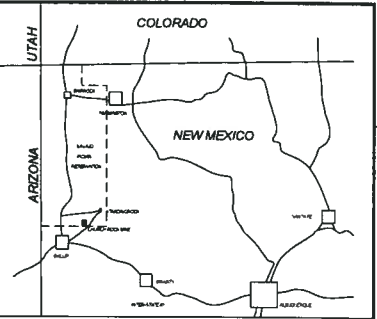
SKETCH PLAN OF X-SEC-9  
APPROX SCALE 1"=50'



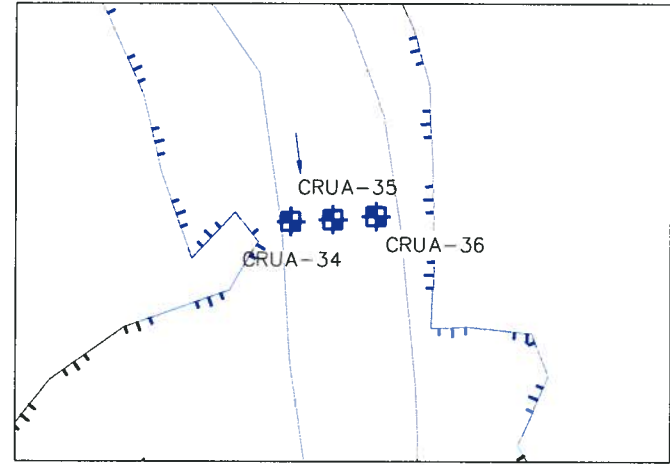
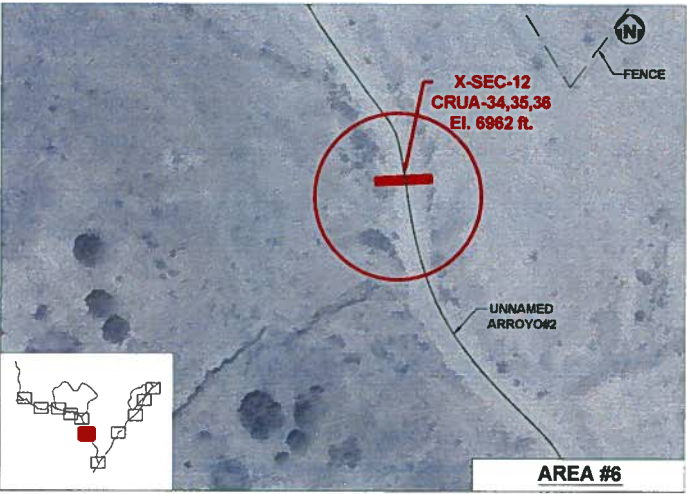
SKETCH PLAN OF X-SEC-10  
APPROX SCALE 1"=50'



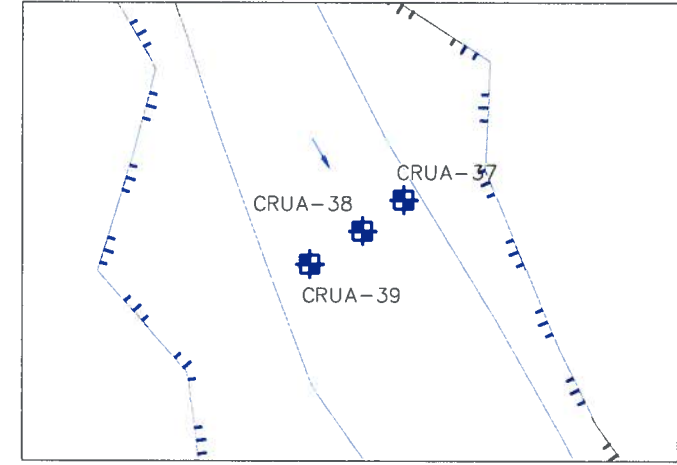
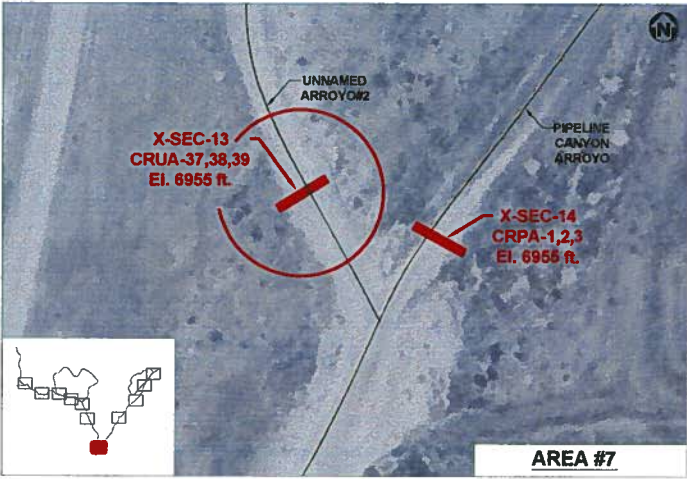
SKETCH PLAN OF X-SEC-11  
APPROX SCALE 1"=50'



- LEGEND**
- CRUA-016 SHALLOW SURFACE SAMPLE LOCATIONS
  - TOP OF ARROYO
  - BASE OF ARROYO
  - DOWN GRADIENT DIRECTION



SKETCH PLAN OF X-SEC-12  
APPROX SCALE 1"=50'



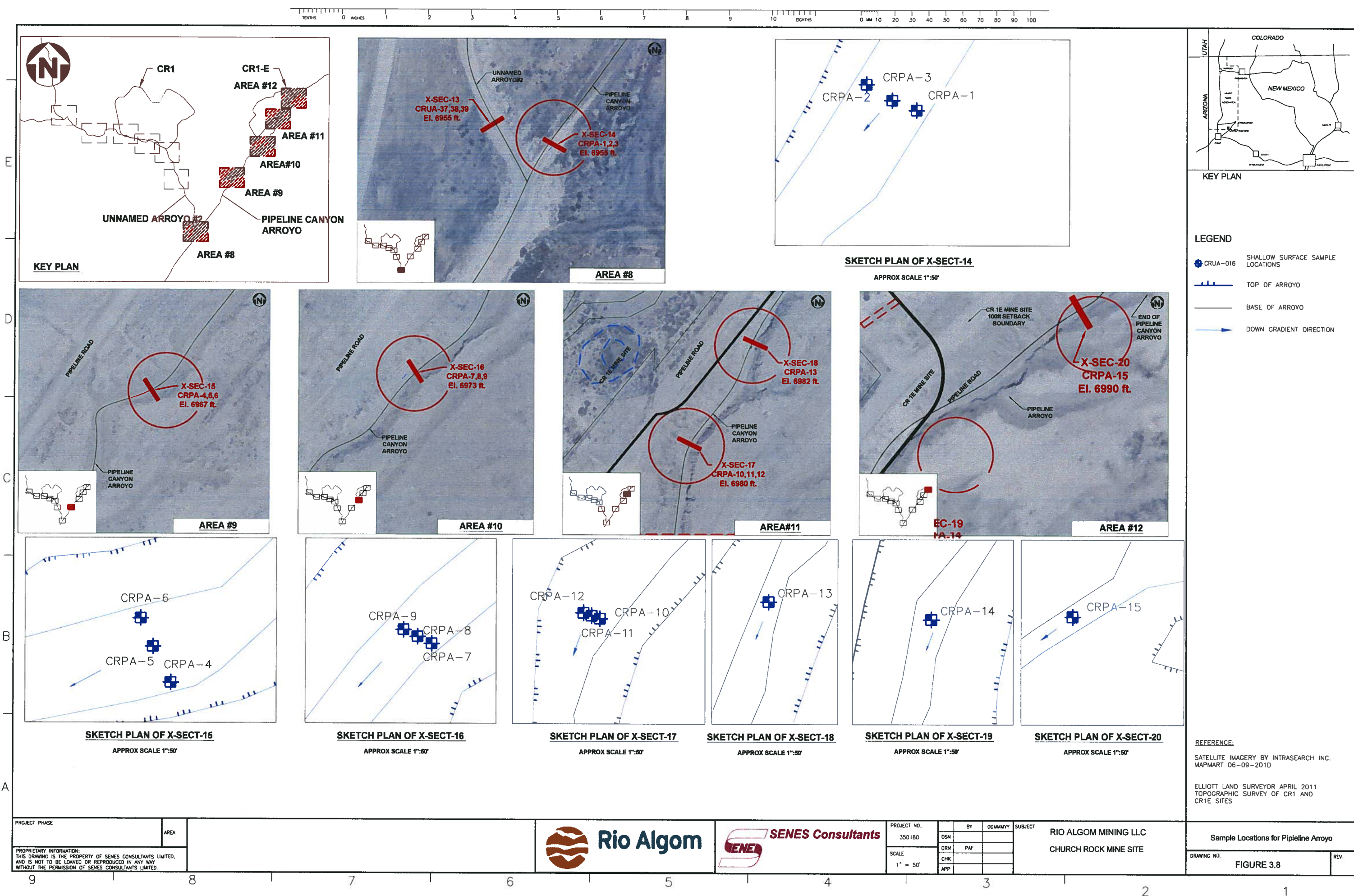
SKETCH PLAN OF X-SEC-13  
APPROX SCALE 1"=50'

**REFERENCE:**  
SATELLITE IMAGERY BY INTRASEARCH INC.  
MAPMART 06-09-2010  
ELLIOTT LAND SURVEYOR APRIL 2011  
TOPOGRAPHIC SURVEY OF CR1 AND CR1E SITES

PROJECT PHASE		AREA				PROJECT NO.		BY	DDMMYY	SUBJECT	RIO ALGOM MINING LLC CHURCH ROCK MINE SITE	Sample Location Plan for Unnamed Arroyo #2 (Part 2 of 2)	
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		SCALE				DRN	PAF						
						1" = 50'	CHK						DRAWING NO.
												FIGURE 3.7	

SAVED: 28-Sep-11 10:42 AM PLOTTED: 28-Sep-11 3:04 PM USER: PAUL FLEMING





PROJECT PHASE

AREA

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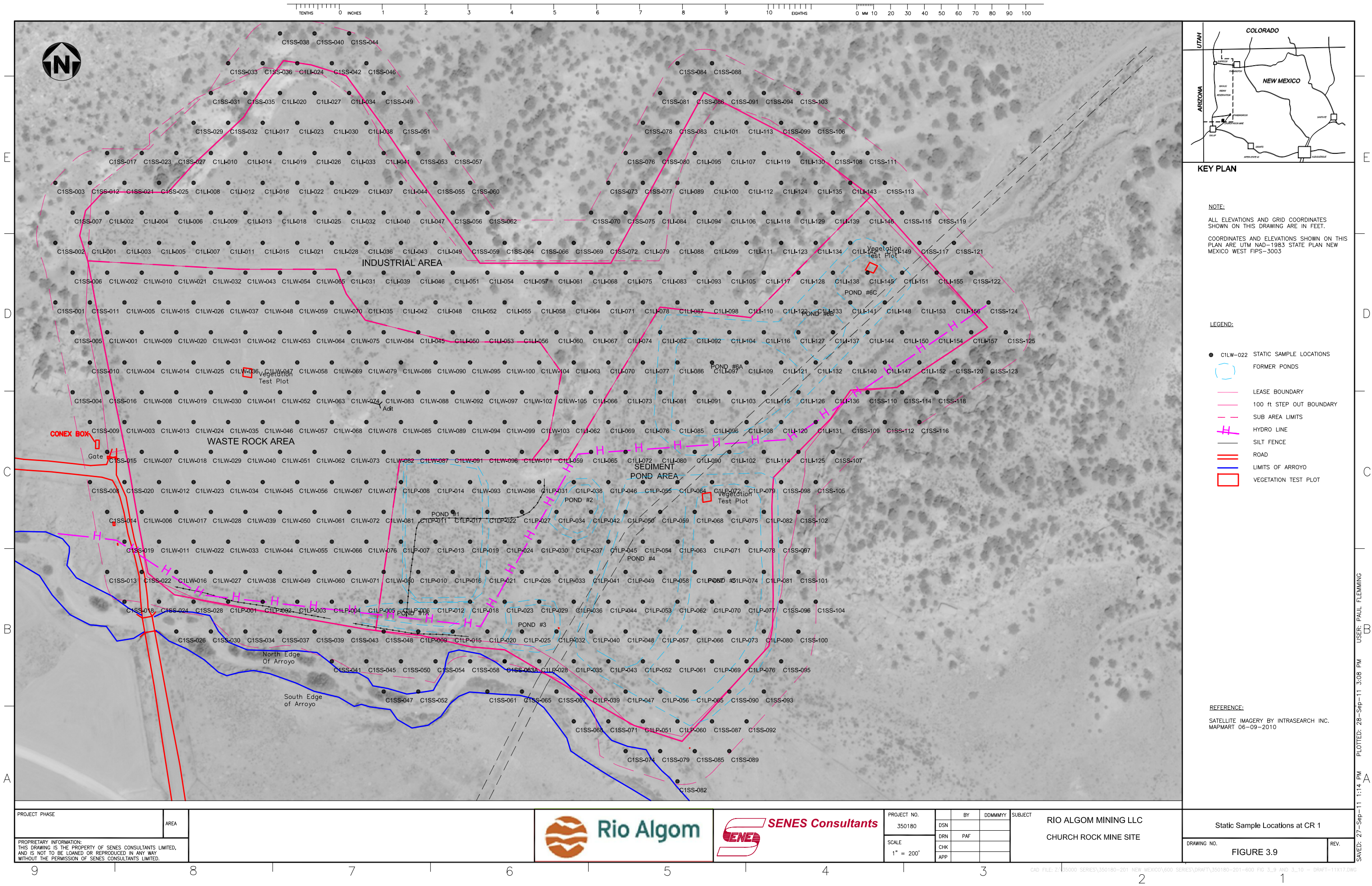


PROJECT NO.	BY	ODM/AMMY	SUBJECT
350180	DSN		RIO ALGOM MINING LLC
SCALE	ORN	PAF	CHURCH ROCK MINE SITE
1" = 50'	CHK		
	APP		

Sample Locations for Pipeline Arroyo	
DRAWING NO.	REV.
FIGURE 3.8	

SAVED: 28-Sep-11 10:42 AM PLOTTED: 28-Sep-11 3:05 PM USER: PAUL FLEMING





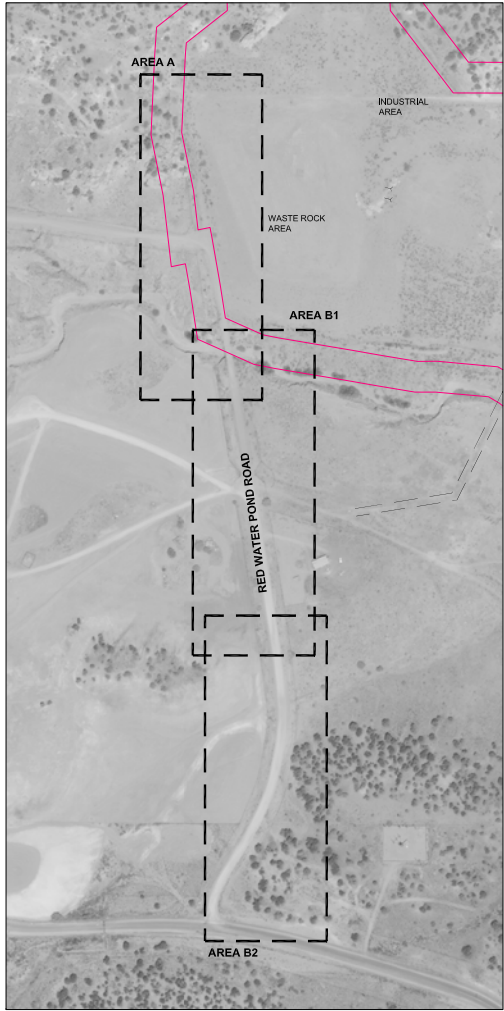
Static Sample Locations at CR 1

DRAWING NO. **FIGURE 3.9** REV.

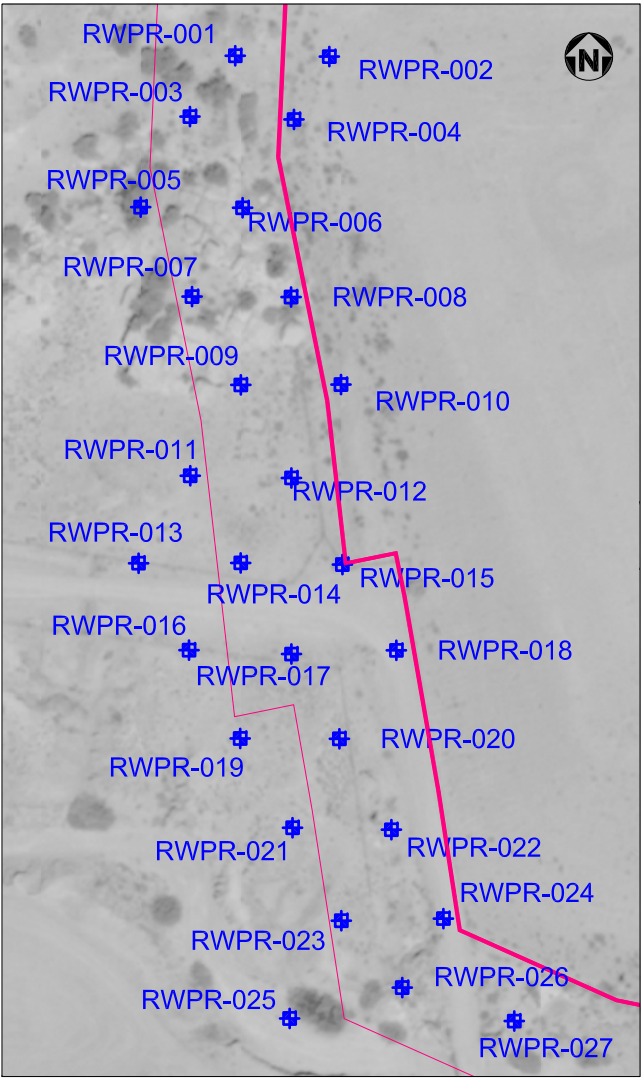




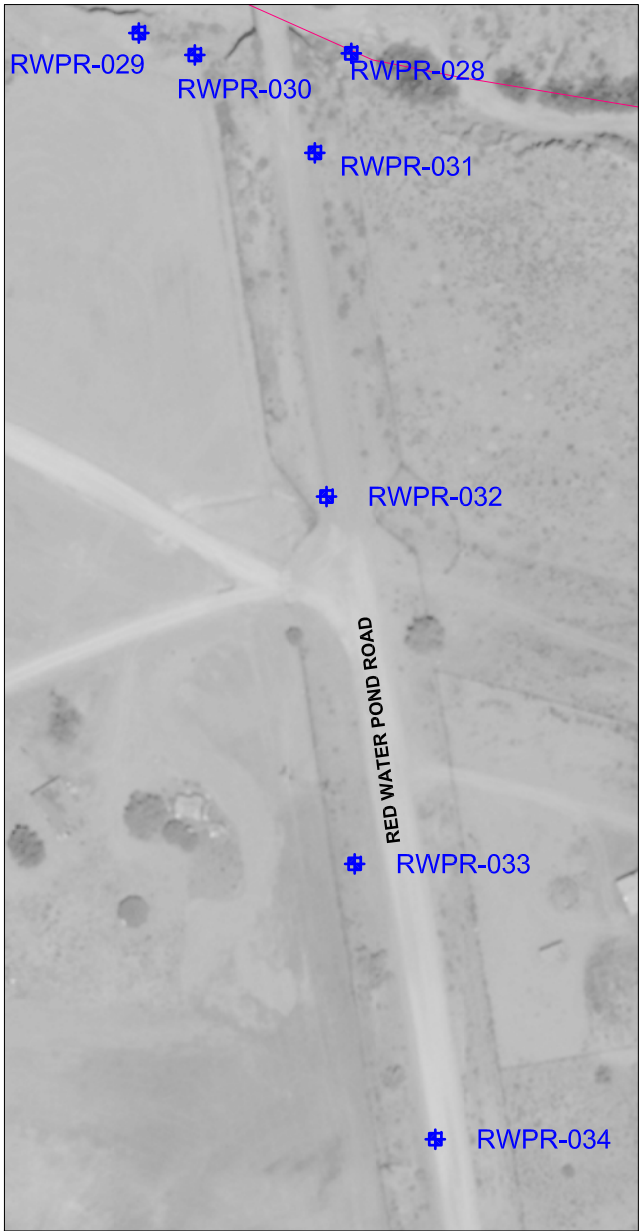




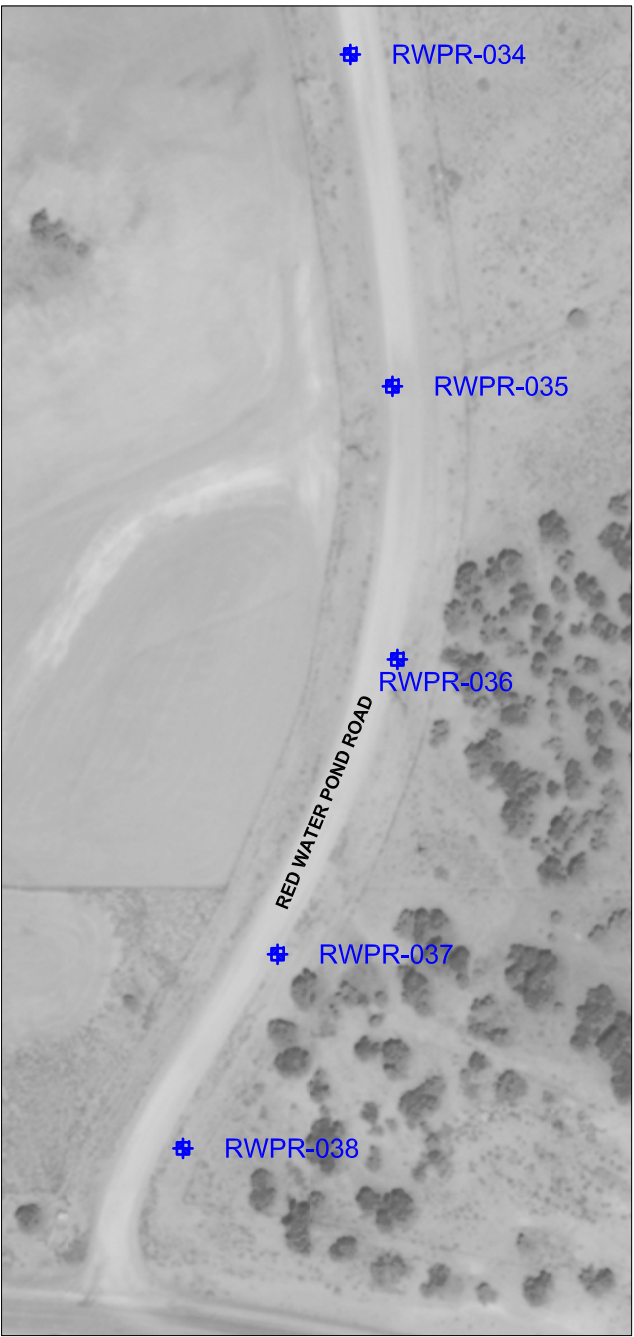
SITE LOCATION PLAN  
SCALE 1" : 625'



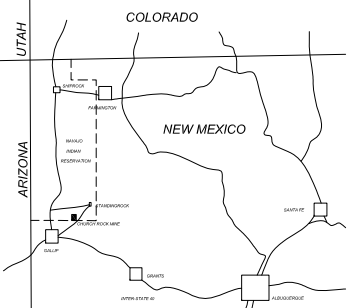
AREA A  
SCALE 1" : 150'



AREA B1  
SCALE 1" : 150'



AREA B2  
SCALE 1" : 150'



KEY PLAN

LEGEND

- LEASE BOUNDARY
- 100ft STEP OUT BOUNDARY
- TEST LOCATION

RWPR-SS-021	RWPR-SS-022
6.22	
1.19	
1.67	38
1.33	7.16
	3.44

RWPR-SS-021	Sample Name
6.22	Lab Result
PINK	Lab Result exceeds 25.0 pCi/g
ORANGE	Lab Result Between 5.0 and 25.0 pCi/g
YELLOW	Lab Result Between 2.24 and 5.0 pCi/g
NO SHADING	Lab Result Below 2.24 pCi/g
-	No Sample

Ra-226 (pCi/g) Summary for Area A									
Depth	RWPR-SS-001	RWPR-SS-002	RWPR-SS-003	RWPR-SS-004	RWPR-SS-005	RWPR-SS-006	RWPR-SS-007	RWPR-SS-008	RWPR-SS-009
0"-2"	-	-	2.65	-	1.55	-	-	-	-
2"-6"	-	-	1.34	-	1.72	-	-	-	-
0"-6"	4.54	2.9	-	8.9	-	4.89	2.01	5.17	2.09
18"-24"	-	48.5	-	1.32	-	2.15	-	-	0.56
30"-36"	-	17.3	-	0.77	-	-	-	-	0.76
Depth	RWPR-SS-010	RWPR-SS-011	RWPR-SS-012	RWPR-SS-013	RWPR-SS-014	RWPR-SS-015	RWPR-SS-016	RWPR-SS-017	RWPR-SS-018
0"-2"	-	-	-	5.49	-	-	-	-	-
2"-6"	-	-	-	2.94	-	-	-	-	-
0"-6"	17.3	3.73	12.2	-	3.56	8	8.1	1.02	12.9
18"-24"	2.62	0.96	2.08	0.97	7.18	3.19	2.06	1.28	2.33
30"-36"	1.62	0.63	1.12	1.2	-	6.7	1.83	0.66	1.74
Depth	RWPR-SS-019	RWPR-SS-020	RWPR-SS-021	RWPR-SS-022	RWPR-SS-023	RWPR-SS-024	RWPR-SS-025	RWPR-SS-026	RWPR-SS-027
0"-2"	6.28	-	6.22	-	-	-	-	-	31.9
2"-6"	2.23	-	1.19	-	-	-	-	-	15.5
0"-6"	7.2	18	-	38	1.67	10.9	0.99	43.2	18.4
18"-24"	1.64	7.7	1.67	7.16	1.44	8.9	-	4.98	3.01
30"-36"	0.87	3.42	1.33	3.44	1.56	6.29	-	3.05	3.85

Ra-226 (pCi/g) Summary for Area B1				
Depth	RWPR-SS-028	RWPR-SS-029	RWPR-SS-030	RWPR-SS-031
0"-6"	1.26	0.79	3.34	84
6"-9"	-	1.07	-	-
18"-24"	1.15	-	0.95	31.7
30"-36"	2.2	-	1.09	33
Depth	RWPR-SS-032	RWPR-SS-033	RWPR-SS-034	
0"-6"	7.5	7.5	2.44	
6"-9"	-	-	-	
18"-24"	1.38	1.52	1.51	
30"-36"	1.72	1.91	1.52	

Ra-226 (pCi/g) Summary for Area B2				
Depth	RWPR-SS-035	RWPR-SS-036	RWPR-SS-037	RWPR-SS-038
0"-2"	-	-	-	27.8
2"-6"	-	-	-	2.47
0"-6"	1.42	2.1	3.3	-
18"-24"	1.06	1.87	1.75	1.18
30"-36"	1.07	1.75	-	1.37

REFERENCE:  
SATELLITE IMAGERY BY INTRASEARCH INC.  
MAPMART 06-09-2010  
  
ELLIOTT LAND SURVEYOR APRIL 2011  
TOPOGRAPHIC SURVEY OF CR1 AND  
CR1E SITES

PROJECT PHASE	AREA
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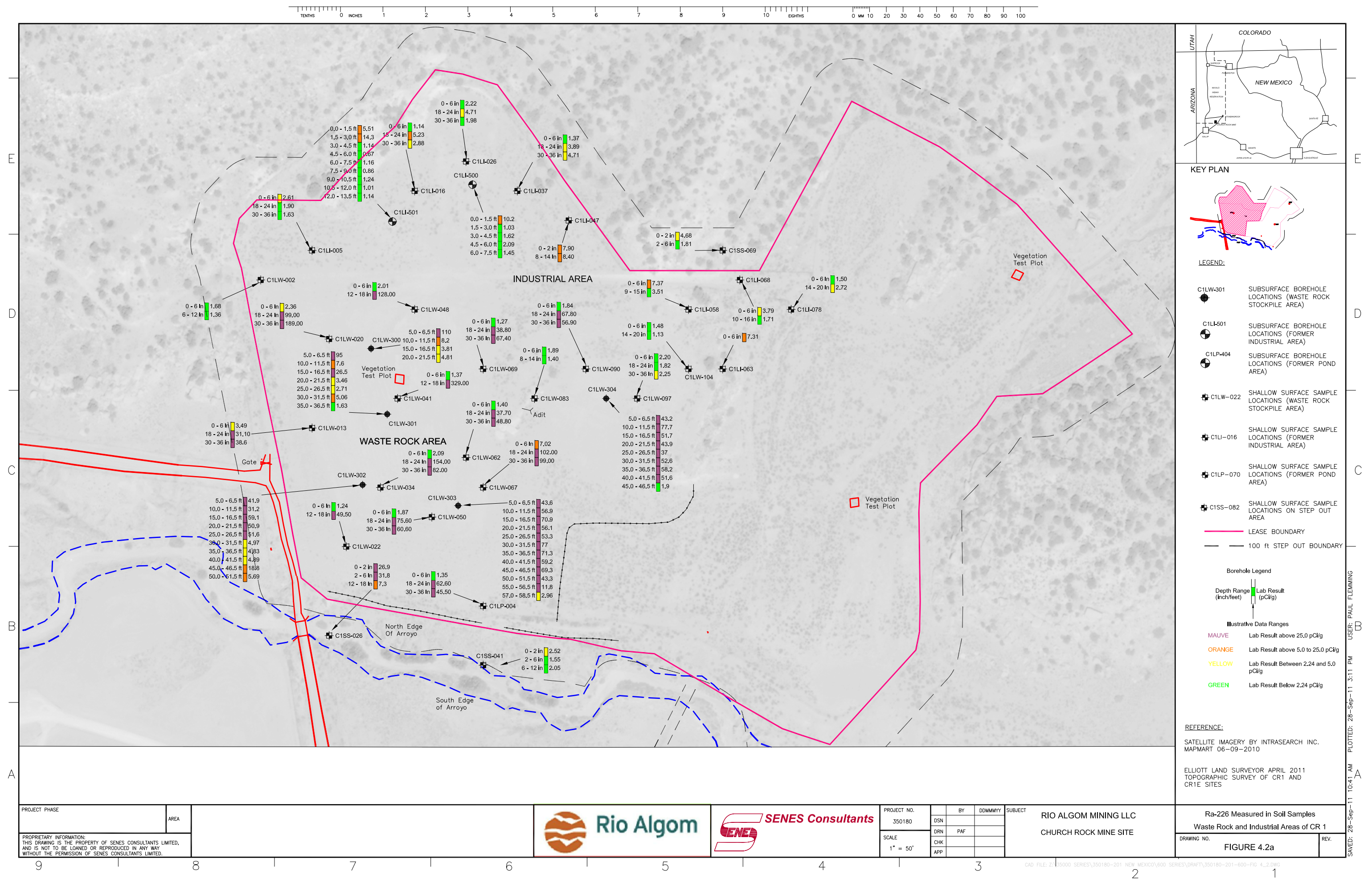


PROJECT NO. 350180	BY DSN	DDMMYY
SCALE 1" = 50'	DRN PAF	
	CHK	
	APP	

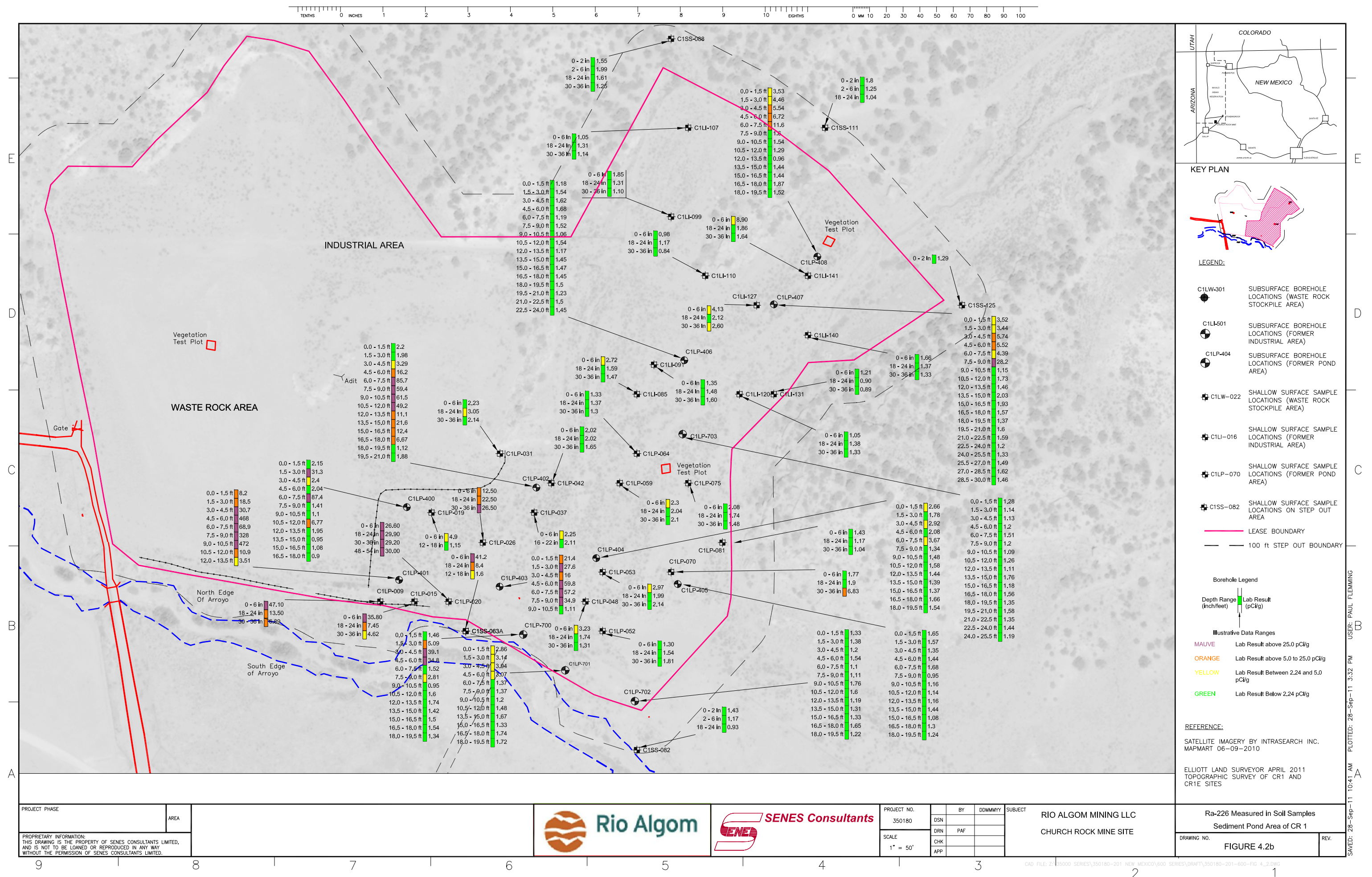
RIO ALGOM MINING LLC  
CHURCH ROCK MINE SITE

Ra-226 Measured in Soil Samples Red River Pond Road	
DRAWING NO. FIGURE 4.1	REV.

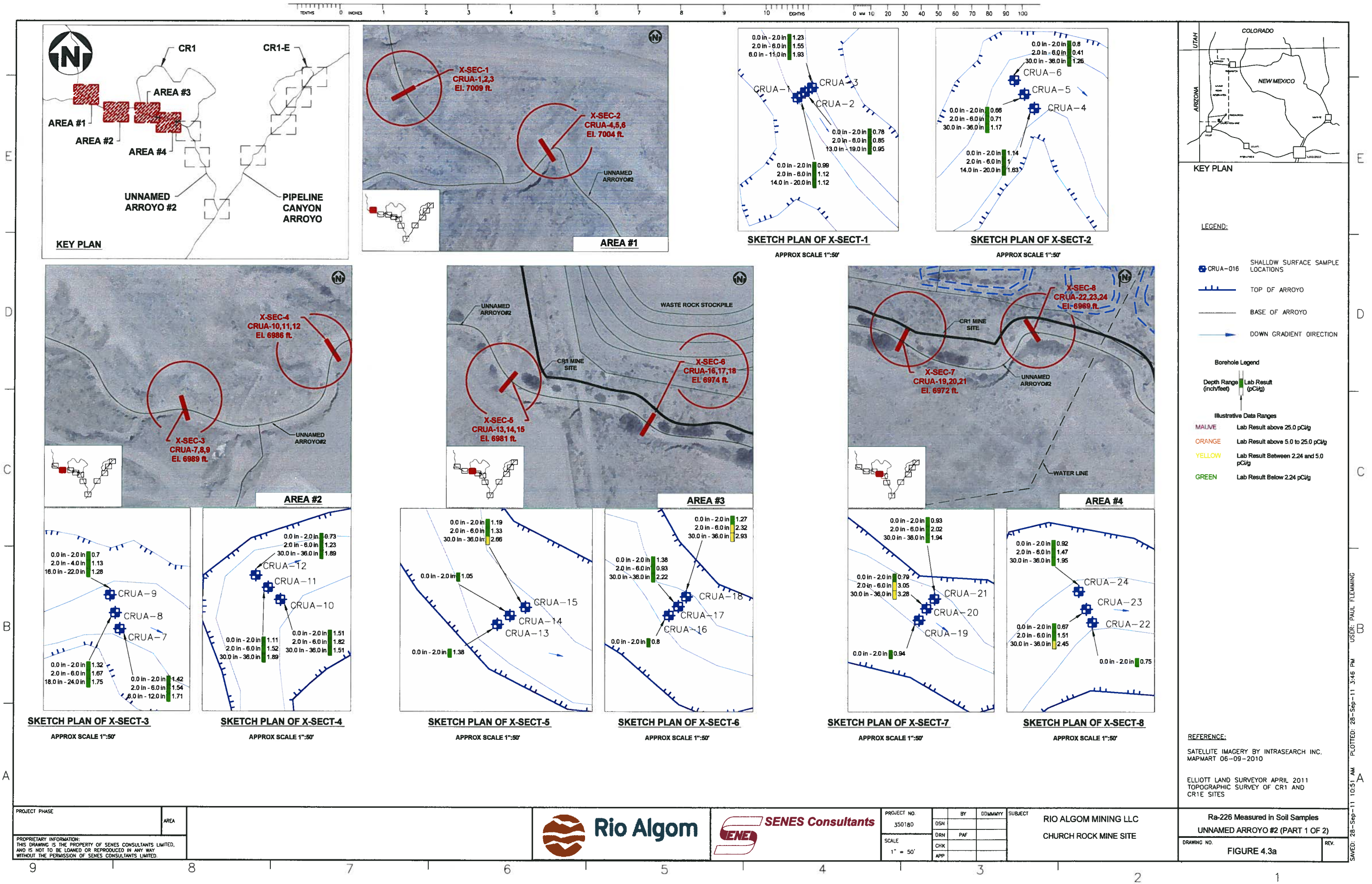




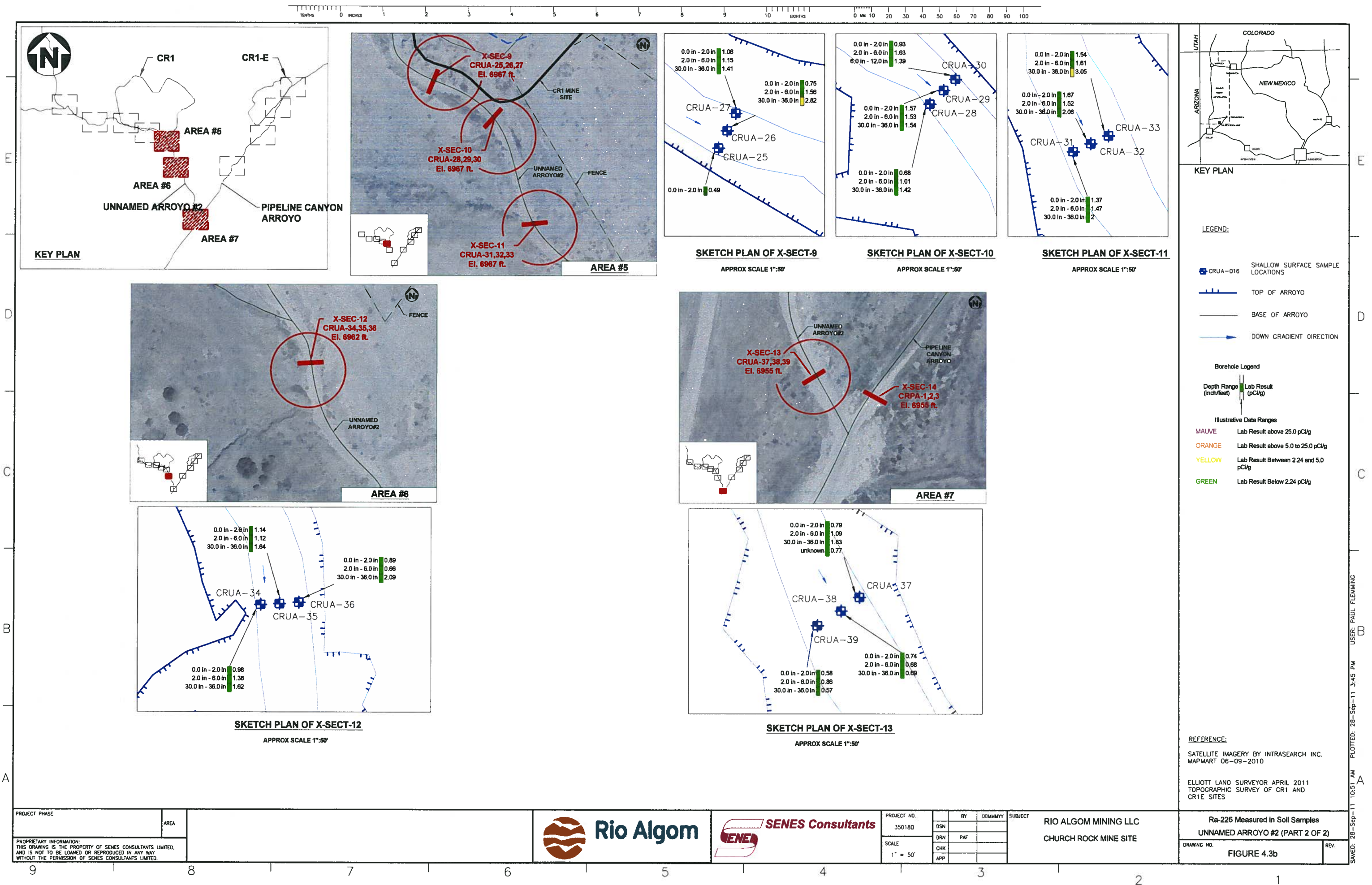








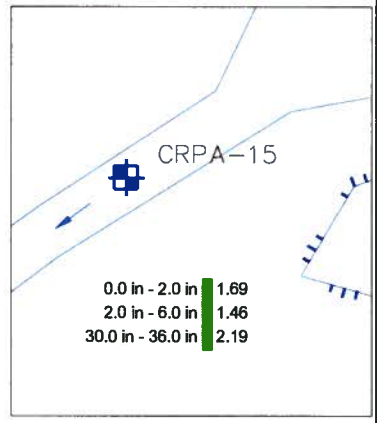
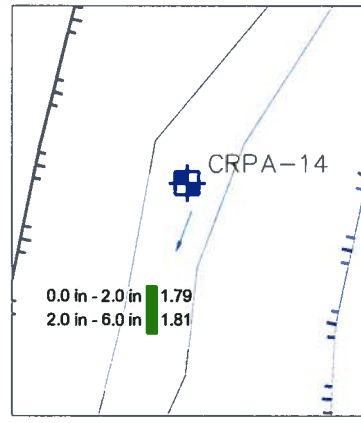
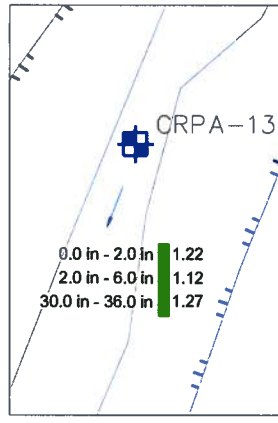
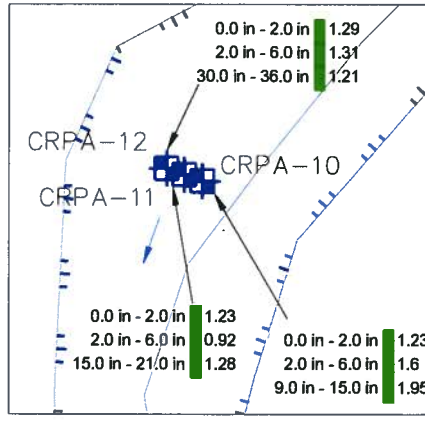
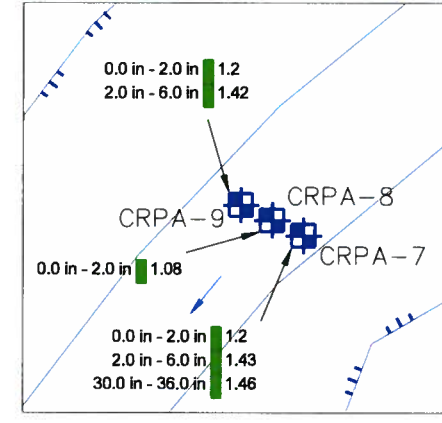
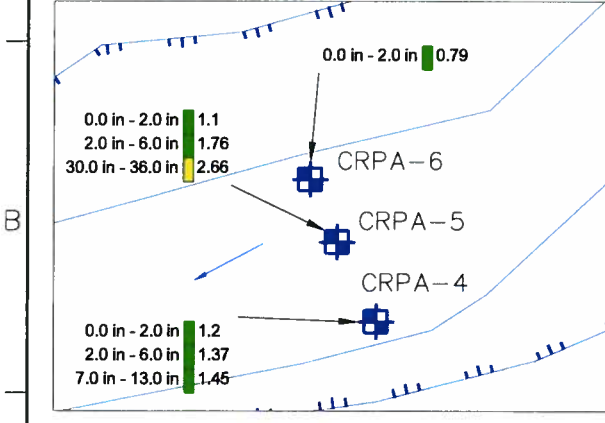
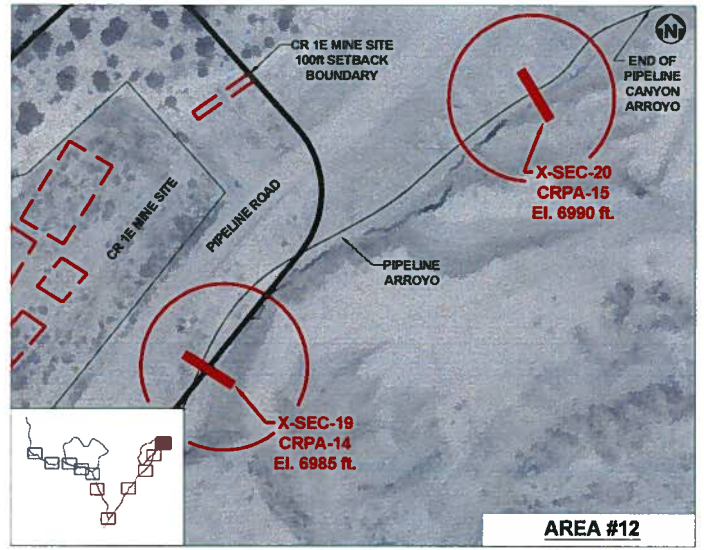
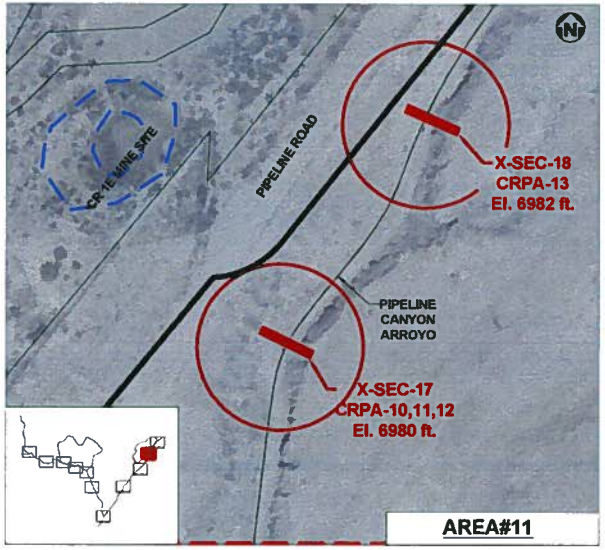
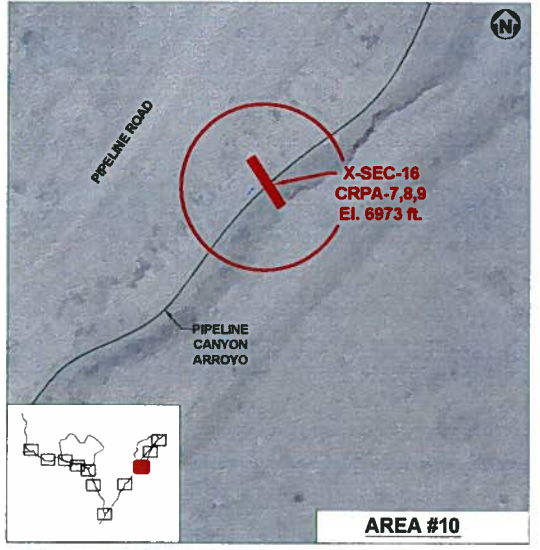
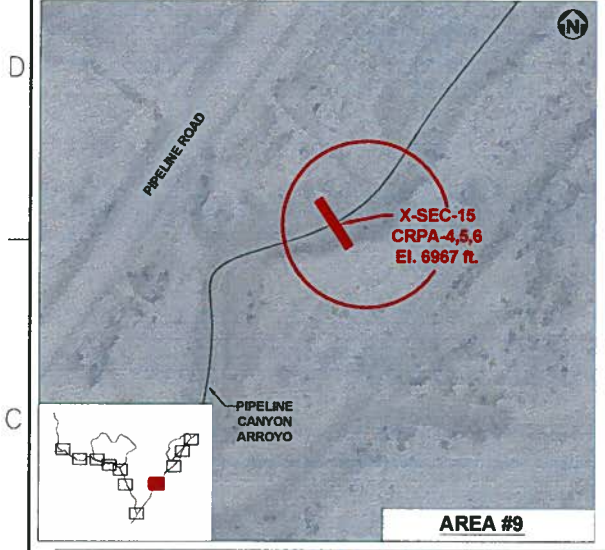
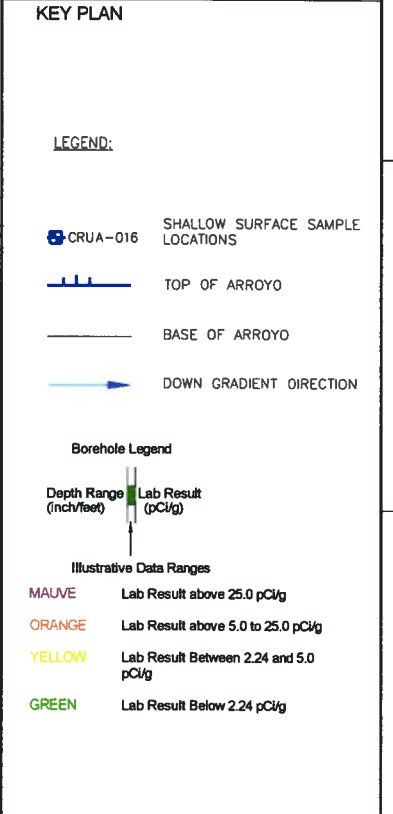
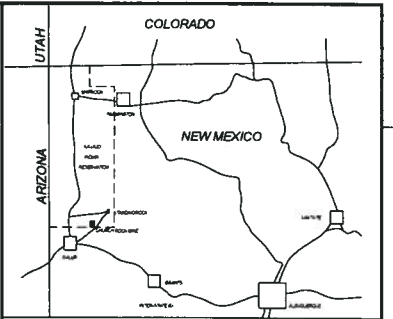
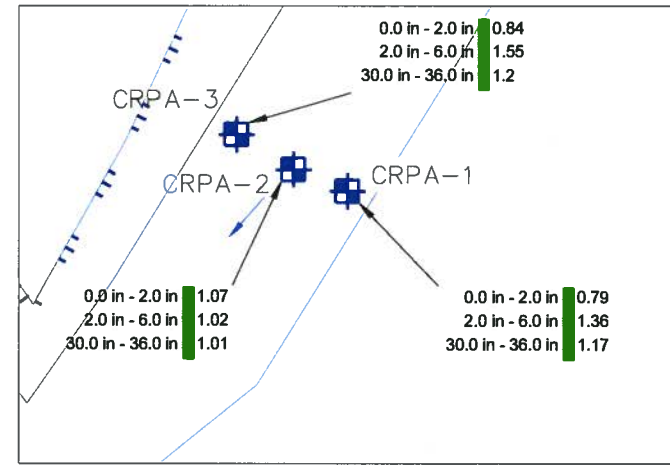
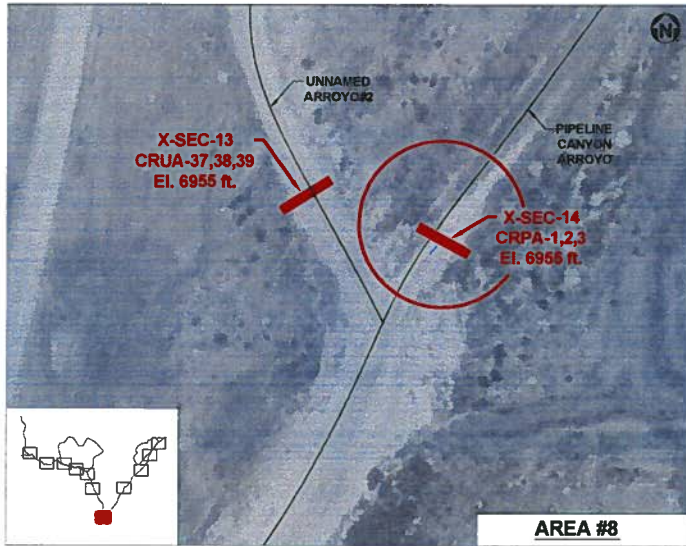
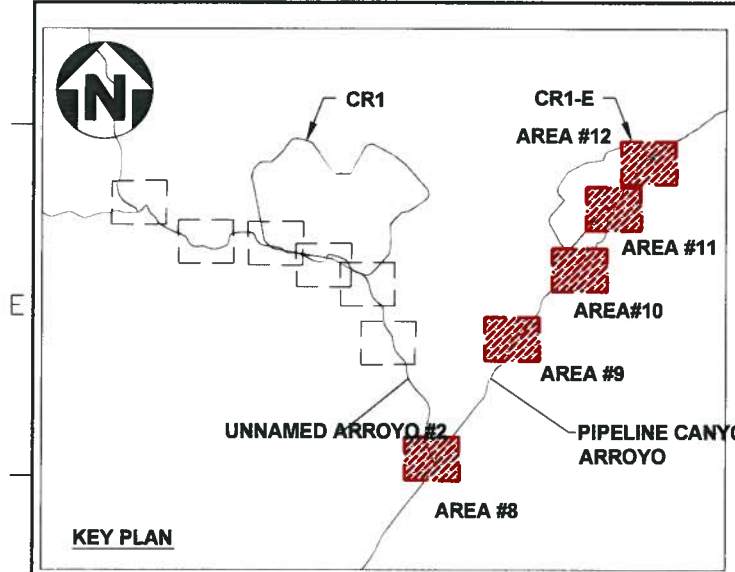












**REFERENCE:**

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MAPMART 06-09-2010

ELLIOTT LAND SURVEYOR APRIL 2011  
TOPOGRAPHIC SURVEY OF CR1 AND  
CR1E SITES

PROJECT PHASE		AREA	 <b>Rio Algom</b>	 <b>SENES Consultants</b>	PROJECT NO.		BY		SUBJECT	RIO ALGOM MINING LLC CHURCH ROCK MINE SITE	Ra-226 Measured in Soil Samples Pipeline Arroyo	
PROPRIETARY INFORMATION: THIS DRAWING IS THE PROPERTY OF SENES CONSULTANTS LIMITED, AND IS NOT TO BE LOANED OR REPRODUCED IN ANY WAY WITHOUT THE PERMISSION OF SENES CONSULTANTS LIMITED.					350180	DSN	PAF	DRAWING NO. <b>FIGURE 4.5</b>			REV	
		SCALE 1" = 50'	DRN									
			CHK									
					APP							

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