Fac ID # HWAAP-B26

STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

6/6 wells

OFFICE USE ONLY
Log No. 117369
Permit No.
Basin 11 & C

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

Please complete this form it its entirety in accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. 67131

1. OWNER Charles R. King/U.S. Army
MAILING ADDRESS 2 S. Maine Ave.
Hawthorne, NV 89415

ADDRESS AT WELL LOCATION 2 S. Maine Ave. IRPMW102
Hawthorne, NV 89415

2. LOCATION ~~SE~~ SW ¼ ~~SE~~ NE ¼ Sec ~~12~~ 10 T 08N N/S R 30 E
PERMIT/WAIVER No. N/A
Issued by Water Resources Parcel No.

Latitude 38°34'3.75"N
Longitude 118°37'1.49"W
UTM E N
☑ NAD 27 ☐ NAD 83/WGS 84
Subdivision Name: County: Mineral

3. WORKED PERFORMED
☑ New Well ☐ Replace ☐ Recondition
☐ Deepen ☐ Other...

4. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test
☐ Municipal/Industrial ☑ Monitor ☐ Stock

5. WELL TYPE
☐ Cable ☐ Rotary ☐ RVC
☐ Air ☑ Other... Auger

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Sand with angular gravel, hard		0	20	20
Sand with angular gravel, loose		20	50	30
Sand with angular gravel & silt		50	60	10
Sand with silt, moist, hard		60	70	10
Sand with silt & gravel, moist		70	91	21
Sand with silt & gravel, wet		91	92	1
Sand with silt, wet		92	105	13

Date started 19-Sep, 20 11
Date completed 19-Sep, 20 11

7. WELL TEST DATA
TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)

8. WELL CONSTRUCTION
Depth Drilled 105 Feet Depth Cased 105 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
8 Inches	0 Feet	105 Feet
Inches	Feet	Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
2	.68	.154	0	105

Perforations:
Type of perforation Slot
Size of perforation 0.01
From 90 feet to 105 feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Surface Seal: ☑ Yes ☐ No
Depth of Seal 85
Placement Method: ☑ Pumped ☐ Poured
Seal Type: ☑ Neat Cement ☐ Cement Grout ☐ Concrete Grout
Gravel Packed: ☑ Yes ☐ No
From 88 feet to 105 feet

9. WATER LEVEL
Static water level 98 feet below land surface
Artesian flow G.P.M P.S.I
Water temperature °F Quality

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Cascade Drilling, L.P. (Contractor)
Address 3632 Omec Circle (Contractor)
Rancho Cordova, CA 95742
Nevada contractor's license number issued by the State Contractor's Board 73966
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 2425
Signed (By driller performing actual drilling on site or contractor)
Date

(Rev. 06/10)

USE ADDITIONAL SHEETS IF NECESSARY

38.567708° N NAD27
118.617081° W Dec/Deg

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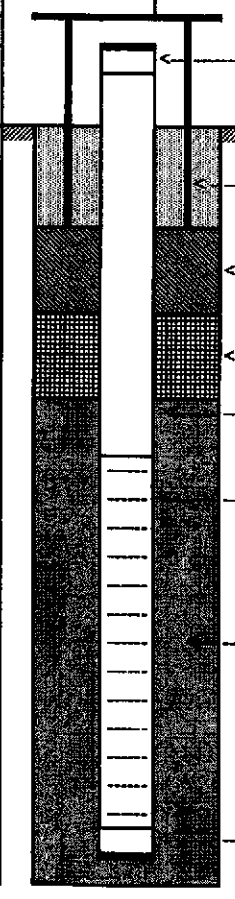
WELL: IRPMW102

MONTORING WELL CONSTRUCTION (STICK-UP)

Site Name & Location: HWAD B26	Project No.	Water Level(s) (ft below top of casing)			Site Elevation Datum
Drilling Company: CASCADE	Foreman: TORY	Date	Time	Level	Ground Elevation
Surveyor				DTP 98.19	Top of Protective Steel Cap Elevation
Date and Time of Completion: 9-19-11 1430	Inspector	9-20-11		DTW 98.2	Top of Riser Pipe Elevation

Generalized Soil Description	*Elevation	**Depth
		0.0
		2
		85
		88
		90
		105
		106

CONSTRUCTION DETAILS



PROTECTIVE STEEL CAP WITH LOCK

EXPANSION CAP

GROUND SURFACE

PROTECTIVE STEEL CASING CEMENTED IN PLACE

BENTONITE-CEMENT GROUT

BENTONITE SEAL

DIAMETER 2"
MATERIAL Sch 40 PVC

DIAMETER ~~20"~~ 2"
MATERIAL Sch 40 PVC
SLOT SIZE 10

SAND PACK TYPE 2/12

BOTTOM CAP

BOTTOM OF BOREHOLE

REMARKS 10 g H_2O added

* Elevation (feet) above mean sea level unless noted

** Depth in feet below grade

rev. 5/96

PLEXUS scientific

Boring Number: ~~B2~~ B26 + MW102

BORING LOG

Site Name & Location: B26	Project Number:	Date & Time Started: ~~[illegible]~~ 1100 9-19-11	
		Date & Time Completed:	
Drilling Company: Cascades	Foreman: TORX	Sampler(s):	Sampler Hammer: / Drop:
Drilling Equipment: CME 95	Method:	Elevation & Datum:	Completion Depth: / Rock Depth:
Bit Size(s): 8 1/4	Core Barrel(s): 18" SS.	Geologist(s): MARQUARDT	

DEPTH (ft below grade)	SAMPLES: Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts	SOIL DESCRIPTION	REMARKS
0-5					HA	
10-11.5		25	0	8,8,8	Sand (sp): fine grained, poorly graded, rounded, dry, hard, light yellowish brown (2.5Y 6/4), w/ 1cm angular gravel 5%	
20-21.5 ~~[illegible]~~		25	0	7,8,8	as above, loose	
30-31.5		50	0	7,7,9	as above light gray (2.5Y 7/2)	
40-41.5		50	0	7,7,9	as above	
50-51.5		50	0	8,8,8	as above 5% Silt, ~~[illegible]~~	
60-61.5		100	0	8,8,8	Sand (sp): fine - crs, poorly graded, rounded, moist, hard, dark grayish brown (2.5Y 4/3) w/ 5% Silt	

Page _____ of _____ Signature: _____ Date: _____

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Boring Number: B26-MW102

BORING LOG

Site Name & Location	Project Number	Date & Time Started:		
		Date & Time Completed:		
Drilling Company	Foreman	Sampler(s)	Sampler Hammer	Drop
Drilling Equipment	Method	Elevation & Datum	Completion Depth	Rock Depth
Bit Size(s)	Core Barrel(s)	Geologist(s)		

DEPTH (ft below grade)	SAMPLES: Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts	SOIL DESCRIPTION	REMARKS
70-71.5		25	0	8,10,10	as above, w/ 10%	
					1cm rounded gravel,	
					light gray (2.5Y 7/2)	
80-81.5		50	0	7,9,9	as above	
90-91		100	0	7,8,9	as above	
91-91.5					as above, wet	
91.5-93		100	0	9,9,9	as above, w/ 30% silt	
					no gravel	
93-94.5		100	0	10,9,10	as above, dark olive brown (2.5Y 4/2)	
94.5-96		100	0	11,10,9	as above	
96-97.5		100	0	8,11,11	as above	
97.5-99		100	0	9,9,9	as above	

Page _____ of _____ Signature: _____ Date: _____

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Boring Number: B2C - MW02

BORING LOG

Site Name & Location	Project Number	Date & Time Started: Date & Time Completed:		
Drilling Company	Foreman	Sampler(s)	Sampler Hammer	Drop
Drilling Equipment	Method	Elevation & Datum	Completion Depth	Rock Depth
Bit Size(s)	Core Barrel(s)	Geologist(s)		

DEPTH (ft below grade)	SAMPLES: Sample Number	Recovery (feet)	FID/PID (ppm)	Blow Counts	SOIL DESCRIPTION	REMARKS
99-	100.5	100	0	7,10,8	as above	
100.5-	102	100	0	9,8,9	as above	
102-	103.5	100	0	8,8,9	as above	
103.5-	105	100	0	9,10,10	as above	

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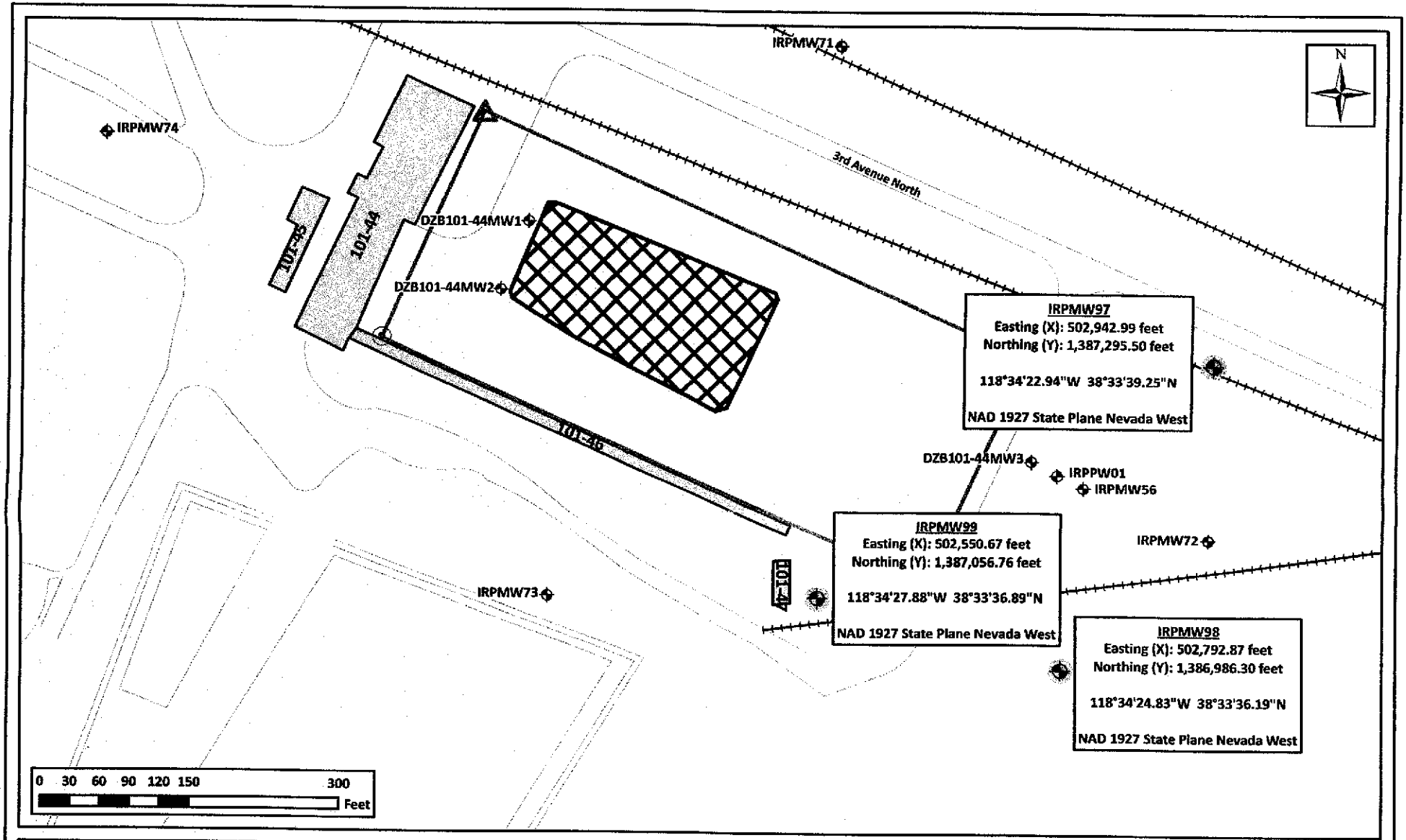

Map Key:

- Proposed Groundwater Monitoring Well
- Exsisting Groundwater Monitoring Well
- Production Well
- Former Surface Impoundment
- Buildings
- Monument
- Pin
- SWMU Boundary
- Rails
- Roads

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SWMU B04
Location of Existing and Proposed Groundwater Monitoring Wells

25 years

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Figure 1

Hawthorne Army Depot
Hawthorne, Nevada

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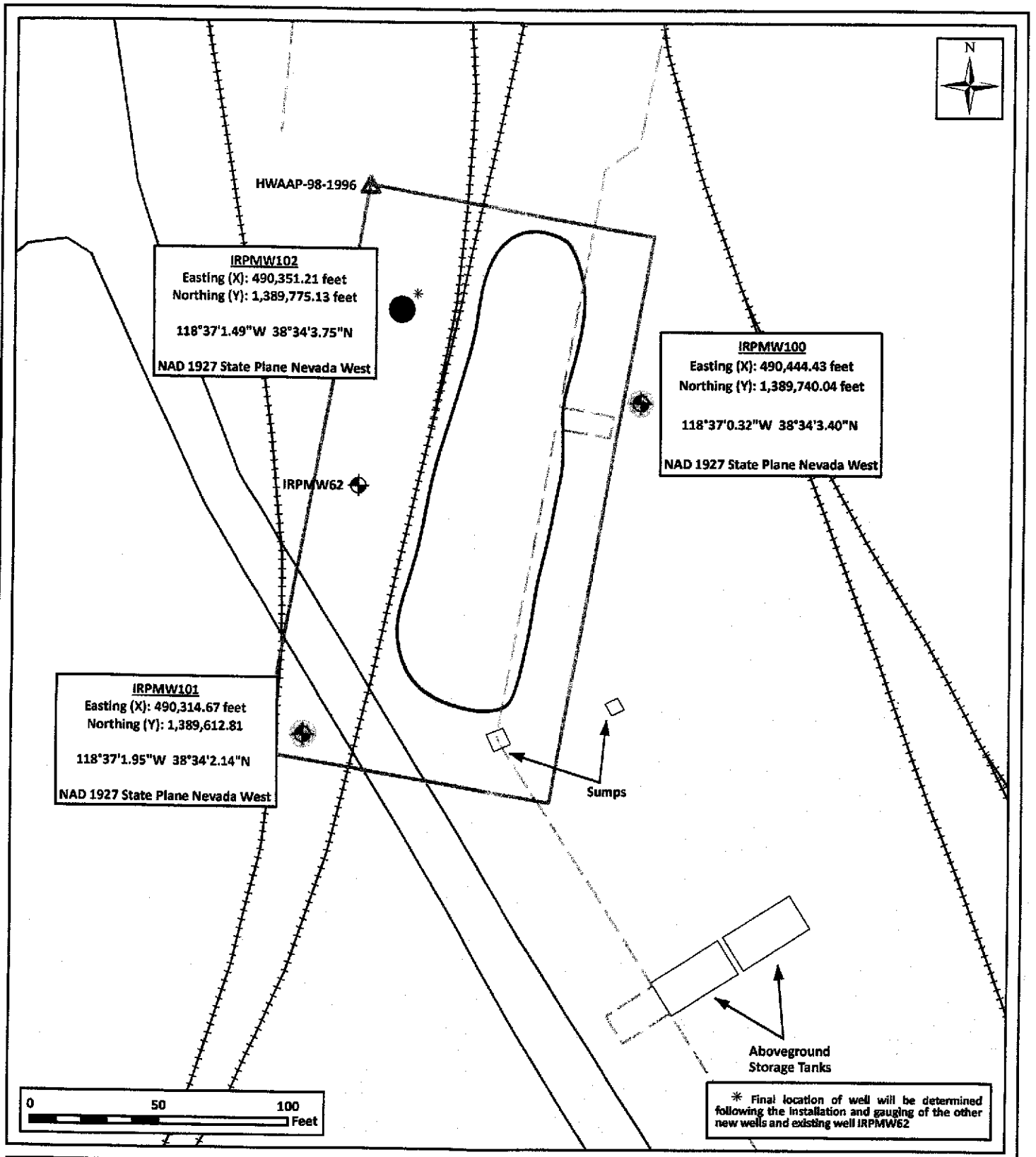
Edited By: Betsy Bouton 09/07/2011 13:37



Steamlines
Road
Railroad
Area of Depressed Ground
SWMU Boundary
Monument
Existing Groundwater Monitoring Well
Proposed Monitoring Well
Proposed Monitoring Well

SWMU B26
Location of Existing and Proposed Groundwater Monitoring Wells

25 years
PLEXUS scientific

Figure 1

Hawthorne Army Depot
Hawthorne, Nevada

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