



Figure 1\_Nameplate\_14May09



**TANK INSPECTION  
CHECKLIST AND  
SUMMARY**

Report #: **137865-SM-36**  
 Inspect Date: 05/14/2009  
 Page: 1 of 3  
 IRISNDT #: 137865

Client: <u>CNRL</u>	District: <u>Slave Lake</u>	Field: <u>Springburn</u>
Facility: <u>04-11-079-17W5</u>	Unit: <u>N/A</u>	LSD: <u>04-11-079-17W5</u>
Owner ID #: <u>SN8298</u>	Equip Tag #: <u>TK-104</u>	Serial #: <u>8298</u>
Foundation: <u>Gravel</u>	AST / UST: <u>AST</u>	Year Built: <u>2002</u>
Manufacturer: <u>Argo Sales Ltd.</u>		Equipment Description: <u>Crude Oil Tank</u>
Status: <u>In Service</u>	Date Removed From Service: _____	Service: <u>Sweet</u>
Des. Fill Height: _____ @ _____	Roof Height: <u>16</u> Feet	Code <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Fire Tube: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Diameter: <u>21.5</u> Ft. O.D.	Insulated: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Secondary Containment Type: <u>Dyke</u>	Volume: <u>1000</u> bbl	Cladding: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
C.A.: _____	Coating: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Paint: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	Cathodic: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Anodic: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

SHELL	Course 1	Course 2	Course 3	Course 4		
Material						
Nominal Thickness	0.188 in.					
Components	Type	Material	Nominal	Components	Material	Nominal
Roof	Fixed		0.250 in.	Floor		0.250 in.

External Inspection Item		A	U	N	Comments	E
1	Process Leaks (flanges, vents, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
2	Weep Holes (in reinforcing pads)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3	Manways / Nozzles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
4	Flange Bolting (includes nuts)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
5	Nut Thread Engagement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
6	Shells	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
7	Manway Davits	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
8	Gauging System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
9	Overflows	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
10	Agitators / Mixers	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
11	Roofs (fixed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
12	Roof Drainage (water ponding on roof plates)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
13	Stairways / Ladders / Platforms / Handrails / Cage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
14	Attached Piping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
15	Grounding Clips / Grounding Cable Attachment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
16	Nameplates / Nameplate Brackets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
17	Attachment Weld Spacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
18	Relief Devices (PVRV, vents, vacuum breakers, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
19	Insulation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
20	Insulation Support Rings (includes clips & bolting)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
21	Paint / Protective Coating Deterioration	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
22	Patches	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
23	Shell-Bottom Junction / Chime	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vegetation around base is in contact with bottom shell.	<input type="checkbox"/>
24	Anchor Bolting (includes nuts) / Anchor Chairs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
25	Foundation Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
26	Tank Settling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
27	Secondary Containment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
28	Site Drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
29	Area Housekeeping	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vegetation around base is in contact with bottom shell.	<input type="checkbox"/>
30	Tank Shell Levelness Survey	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
31	Dents or Bulges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
32	Tank Observations:					
33	Site Observations:					

**A = Acceptable**  
**U = Unacceptable - requires further assessment**

**N = Not applicable**  
**E = Engineering to determine suitability for service.**

Edmonton (780) 437-4747	Fort McMurray (780) 743-1536	Cold Lake (780) 594-1114	Mailing Address
Calgary (403) 279-6121	Grande Prairie (780) 532-2283	Red Deer (403) 347-1742	5311 - 86 Street
Nisku (780) 955-7616	High Level (780) 841-0470	Tulsa, OK (918) 446-8773	Edmonton, Alberta
Barrhead (780) 674-3018	Lloydminster (780) 875-6455	Houston, TX (281) 476-4444	T6E 5T8





TANK INSPECTION CHECKLIST AND SUMMARY

Report #: 137865-SM-36
Report Date: 05/14/2009
Page: 3 of 3
IRISNDT #: 137865

Client: CNRL LSD: 04-11-079-17W5 Owner ID #: SN8298

Attached to Tank Inspection Report #

Additional Attachments # of pages Specify

NDE Performed: UT MT PT ET RT OTHER

NDE Report #:

Conclusion: [X] Acceptable for continued use [ ] Not acceptable for continued use [ ] Repairs required

Inspection Comments (Continued):

An external visual inspection was performed on tank and the findings are as follows:

- Vegetation is present around the base of the tank and is in contact with bottom chime and shell.
The paint is intact on the shell.
The ladder is secure and level.
The tank is properly grounded.
The level gauge is clear and visible.
The PVRV is in good condition.
Refer to the attached photos for inspection findings.

Deficiencies:

- Vegetation is present around the base of the tank and is in contact with bottom chime and shell.

Recommendations:

- Remove the vegetation from the area to prevent a corrosive environment from developing.

Unit # Kilometers:

In Out Hrs

In Out Hrs

Personnel:

Consumables:

Inspector:

Saeed Majnia (Print) CERT:

(Signature) No.:

I am in full agreement with report contents:

Client Representative

Table with 7 columns: Location, Phone 1, Phone 2, Phone 3, Phone 4, Phone 5, Mailing Address. Rows include Edmonton, Calgary, Nisku, Barrhead, Fort McMurray, Grande Prairie, High Level, Lloydminster, Cold Lake, Red Deer, Tulsa, OK, Houston, TX.



Figure 2\_Crude Oil Tank\_14May09