API 653 INSPECTION REPORT BUILDER

Professional Atmospheric Storage Tank Inspection System

| PROJECT OVERVIEW | |
|------------------|-----------------|
| Report Number: | Daybrooke 25-1 |
| Tank ID: | 1 |
| Inspector: | Jerry Hartfield |
| Inspection Date: | 45872 |

NAVIGATION MENU

Base Data - Tank & Inspector Information

Shell Calc - Thickness Calculations

Component CML - Corrosion Monitoring

Settlement - Survey Analysis Charts - Visual Analysis

Report - Final Printable Report

| CRITICAL ALERTS | |
|----------------------------|----|
| Shell Thickness Issues: | 0 |
| Settlement Limit Exceeded: | NO |
| CML Locations < 5 Years: | 0 |

COMPLETION STATUS

| Base Data Complet | o Pending |
|--------------------------|------------|
| Shell Calc Complete | o Pending |
| Settlement Comple | o Pending |
| CML Data Complete | √ Complete |

BASE REPORT DATA

Enter basic tank and inspection information

| REPORT INFORMATION | | |
|---------------------|----------|--------------------|
| Report No. * | | Required field |
| Tank/Equipment ID * | | Required field |
| Inspection Date | 8/3/2025 | Format: MM/DD/YYYY |

| TANK SPECIFICATIONS | | |
|-------------------------------|------|-----------------|
| Nominal Diameter (ft) | 50 | Enter in feet |
| Shell Height (ft) | 32 | Enter in feet |
| Design Pressure (psig) | 0 | Enter in psig |
| Original Plate Thickness (in) | 0.25 | Enter in inches |

| MATERIAL & SERVICE INFORMATION | | |
|---------------------------------|---------------|-----------------------------|
| Plate Spec (Course 1) | A516 Grade 70 | 26700 |
| Service Type | Crude Oil | 0.85 |
| Age/Previous Inspection (years) | | Years since last inspection |

| INSPECTOR INFORMATION | | |
|-----------------------|---------------------|---------------------------|
| Inspector | John Smith, API 653 | API 653 #12345 |
| Inspector of Record | | Name for report signature |
| Certification Number | | API 653 certification # |

SHELL CALCULATIONS (API 653)

Thickness requirements and remaining life calculations

LCULATION PARAMETERS

| Fill Height (ft) | | Maximum liquid level |
|------------------|------|--------------------------|
| Specific Gravity | 1.0 | Product specific gravity |
| Joint Efficiency | 0.85 | From radiography type |

DURSE DATA & CALCULATIONS

| Course | Height(ft) | Material | Stress(psi) | t Original(in) | t Actual(in) | : Required(in) | t Min(in) | CR(mpy) | nainingLife (yı | Status |
|--------|------------|----------|-------------|----------------|--------------|----------------|-----------|---------|-----------------|--------|
| 1 | 32 | A36 | 26700 | 0.25 | 0.241 | -0.183 | 0.100 | | | |
| 2 | | A36 | 26700 | | | | | | | |
| 3 | | A36 | 26700 | | | | | | | |
| 4 | | A36 | 26700 | | | | | | | |
| 5 | | A36 | 26700 | | | | | | | |
| 6 | | A36 | 26700 | | | | | | | |
| 7 | | A36 | 26700 | | | | | | | |

ALCULATION SUMMARY

| Minimum Remaining L | 0.000 | years |
|----------------------|-------|---------|
| Maximum Corrosion Ra | 0.000 | mpy |
| Critical Courses: | 0.000 | courses |

SETTLEMENT SURVEY ANALYSIS

Tank foundation settlement monitoring and analysis

| SURVEY PARAMETERS | | _ |
|------------------------------|-------------------|----|
| Current Survey Date | | |
| Previous Survey Date | | |
| Time Between Surveys (years) | 0.000 | |
| Reference Datum | Mean Sea Level (M | SL |

EVATION MEASUREMENT POINTS

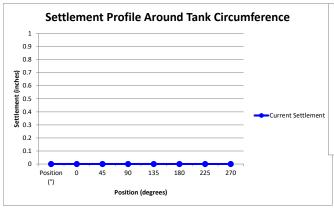
| Position (°) | Previous Elev. (ft) | Current Elev. (ft) | Settlement (in) | Rate (in/yr) | Status |
|--------------|---------------------|--------------------|-----------------|--------------|--------|
| 0 | | | | | |
| 45 | | | | | |
| 90 | | | | | |
| 135 | | | | | |
| 180 | | | | | |
| 225 | | | | | |
| 270 | | | | | |
| 315 | | | | | |

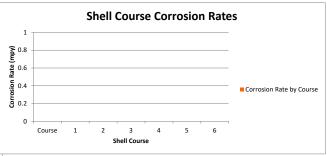
ETTLEMENT ANALYSIS RESULTS

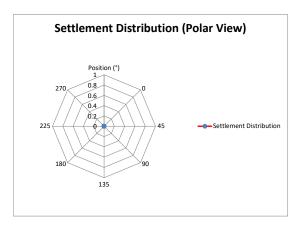
| Maximum Settlement: | 0.000 | inches |
|--------------------------|-------|---------|
| Minimum Settlement: | 0.000 | inches |
| Average Settlement: | | inches |
| Differential Settlement: | 0.000 | inches |
| Tilt Percentage: | 0.000 | % |
| Planar Tilt Angle: | 0.000 | degrees |
| Out-of-Plane Settlement: | | inches |

| API 653 COMPLIANCE CHECK | | | |
|--------------------------|-------|---------------------|----|
| Tilt Limit (1%): | PASS | API 653 Section 6.3 | .2 |
| Settlement Rate Concern: | 0.000 | locations | |

SETTLEMENT ANALYSIS CHARTS







COMPONENT CORROSION MONITORING LOCATIONS

Thickness measurement tracking and remaining life analysis

| QUICK ADD | CML | L |
|-----------|-----|---|
|-----------|-----|---|

| Component: | Shell Course 1 |
|--------------|----------------|
| Location: | |
| Auto CML ID: | |

IL MONITORING DATA

| CML ID | Component | Location | rrentReading (i | viousReading (iracticaltmin (in | rosionRate (mpmainingLife (| r:Next Insp.Date | Status |
|--------|-----------|----------|-----------------|---------------------------------|-----------------------------|------------------|--------|
| | | | | 0.100 | | | |
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| | | | | 0.100 | | | |

SUMMARY STATISTICS

| Total CML Location | 1.000 | |
|---------------------|---------|-------|
| Critical Locations: | 0.000 | |
| Warning Locations: | 0.000 | |
| Average Corrosion | #DIV/0! | mpy |
| Minimum Remainir | 0.000 | years |

API 653 ATMOSPHERIC STORAGE TANKINSPECTION REPORT

| EXECUTIVE SUMMARY | |
|----------------------|---------------------|
| Report Number: | 0.000 |
| Tank Identification: | 0.000 |
| Inspection Date: | 45872.000 |
| Inspector: | John Smith, API 653 |

| TANK SPECIFICATIONS | |
|---------------------|-----------|
| Nominal Diameter: | 50 ft |
| Shell Height: | 32 ft |
| Design Pressure: | 0 psig |
| Service: | Crude Oil |
| Age: | years |

SHELL CALCULATIONS SUMMARY

| Course | t Required (in) | t Actual (in) | t Min (in) | CR (mpy) | Rem. Life (yrs) | Status |
|--------|-----------------|---------------|------------|----------|------------------|--------|
| 1.000 | t Required(in) | t Actual(in) | t Min(in) | CR(mpy) | mainingLife (yrs | Status |
| 2.000 | -0.183 | 0.241 | 0.100 | | | |
| 3.000 | | 0.000 | | | | |
| 4.000 | | 0.000 | | | | |
| 5.000 | | 0.000 | | | | |
| 6.000 | | 0.000 | | | | |
| 7.000 | | 0.000 | | | | |

| SETTLEMENT ANALYSIS SUMMARY | |
|-----------------------------|-------|
| Maximum Settlement: | 0.000 |
| Differential Settlement: | 0.000 |
| Tilt Percentage: | 0.000 |
| API 653 Compliance: | PASS |

| CORROSION MONITORING SUMMARY | |
|------------------------------|---------|
| Total CML Locations: | 1.000 |
| Critical Locations: | 0.000 |
| Minimum Remaining Life: | 0 years |

| RECOMMENDATIONS |
|---|
| Continue monitoring critical thickness locations |
| Schedule next inspection based on remaining life calculations |
| Address any settlement concerns identified |
| |

Maintain corrosion protection systems

| INSPECTOR CERTIFICATION |
|--|
| This inspection was performed in accordance with API 653 |
| standards and applicable codes and regulations. |

| Inspector: | 0.000 |
|----------------|-----------|
| Certification: | 0.000 |
| Date: | 45891.000 |

ATERIALS DATABA

| Material | Allowable Stress (p | Grade | Temp Rating (°F) | Notes | Joint Type | Efficiency | API 653 Ref |
|---------------|---------------------|----------|------------------|----------------------|---------------------------|------------|-------------|
| A516 Grade 70 | 26700 | Grade 70 | 800 | Most common tank | Fully Radiographed | 1.00 | Table 4.2 |
| A36 | 26700 | Standard | 650 | General structural s | Spot Radiographed | 0.85 | Table 4.2 |
| A572 Grade 50 | 30000 | Grade 50 | 700 | High strength steel | No Radiography | 0.70 | Table 4.2 |
| A283 Grade C | 20000 | Grade C | 600 | Low carbon steel | | | |
| A537 Class 1 | 32500 | Class 1 | 750 | Pressure vessel qua | lity | | |
| A285 Grade C | 20000 | Grade C | 650 | Older tank materia | | | |
| A516 Grade 60 | 24000 | Grade 60 | 750 | Lower grade A516 | | | |

ERVICES DATABAS

| Service Type | Specific Gravity | Corrosivity | Temp Range (°F) |
|--------------|------------------|-------------|-----------------|
| Crude Oil | 0.85 | Low | 32-200 |
| Gasoline | 0.72 | Medium | 32-100 |
| Diesel | 0.85 | Low | 32-150 |
| Water | 1.00 | High | 32-212 |
| Jet Fuel | 0.80 | Low | 32-120 |
| Heating Oil | 0.89 | Low | 32-180 |

PECTORS DATABA

| Inspector Name | Certification | Expiration | Specialties |
|---------------------|----------------|------------|---------------|
| John Smith, API 653 | API 653 #12345 | 12/31/2025 | AST, Repairs |
| Sarah Johnson, API | API 653 #23456 | 06/30/2026 | AST, FRP |
| Mike Wilson, API 6 | API 653 #34567 | 03/15/2025 | AST, Welding |
| Lisa Brown, API 653 | API 653 #45678 | 09/30/2026 | AST, Coatings |
| Chris Welch | | | |
| | | | |