

Drilling Pit Assessment Results Summary Sheet

- Pit liner was observed in the subsurface at nineteen (19) locations therefore Kinder Morgan will seek a variance under Rule 502.b. from compliance with Rule 905.b.(3)A. which requires that liner material be removed.
- Kinder Morgan will request “No Further Action and Closure” at twelve (12) locations.
 - No drilling waste impact to shallow soil or pit liner observed at three (3) locations.
 - No drilling waste impact to shallow soil but pit liner was observed at two (2) locations.
 - No pit liner observed but minor drilling waste impacts to shallow soil were observed at three (3) locations.
 - Pit liner and minor drilling waste impact to shallow soil observed at four (4) locations.
- Kinder Morgan will request “No Action at This Time” at ten (10) locations with the understanding that the pit status would remain open and any drilling waste impacts would be addressed either by monitoring vegetation over time or re-assessment of the impacts at the time that the wells are plugged & abandoned (P&A) and the locations receive final reclamation.
 - Monitoring of vegetation growth is proposed at three (3) locations where pit liner and drilling waste impacts (EC & SAR only) to shallow soil were observed.
 - Re-assessment at the time of well P&A and final reclamation is proposed at seven (7) locations where pit liner and drilling waste impacts (EC, SAR & TPH) to soil were observed.
- Kinder Morgan will propose remediation plans at three (3) locations.
 - Excavation and disposal of soil impacted by drilling waste (TPH) at two (2) locations.
 - Evaluation of potential impacts to shallow ground water at one (1) location.

Site Assessment Results Summary

Well ID	Liner Observed	Salt Impacts <3' of Ground Surface	Hydrocarbon Exceedances	Hydrocarbon Exceedances <3' of Ground Surface	Groundwater Encountered	Groundwater Impacts	Recommended Remediation	Rationale
DC-11	NONE	NONE	NONE	NONE	Deep Boring TD=50', Dry Hole	N/A	Request No Further Action.	No Liner, No Impact
HA-4	NONE	NONE	NONE	NONE	N/A	---	Request No Further Action.	No Liner, No Impact
YA-7	NONE	NONE	NONE	NONE	N/A	---	Request No Further Action.	No Liner, No Impact
GP-15	B7 @ 6'	NONE	NONE	NONE	N/A	---	Request No Further Action	No Impact
GP-17	B8 @ 7'	NONE	NONE	NONE	Deep Boring TD=50', DTW=43'	NONE	Request No Further Action.	No Impact
GP-12	B6 @ 11.5' B7 @ 6'-7'	B6 (EC=10.4 @ 2'-3') B7 (EC=4.51 @ 2'-3')	NONE	NONE	Deep Boring TD=50', DTW=40'	NONE	Request No Further Action	COGCC Std. for EC=4, site photos show good vegetation growth
HB-5	B6 @ 13'	B4 (EC=6.76 @ 2'-4')	NONE	NONE	N/A	---	Request No Further Action	COGCC Std. for EC=4, site photos show good vegetation growth
YA-4	B3 @ 15'	B2 (EC=6.33 @ 2'-4') B4 (EC=8.86 @ 2'-4') B5 (EC=6.31 @ 2'-4')	NONE	NONE	N/A	---	Request No Further Action.	COGCC Std. for EC=4, site photos show good vegetation growth
YA-5	B3 @ 9-10' B6 @ 2', 3' & 5.5'	B6 (EC=6.25 @ 2'-3') B7 (EC=5.11 @ 2'-3')	NONE	NONE	N/A	---	Request No Further Action.	COGCC Std. for EC=4, site photos show good vegetation growth
YA-6	NONE	B5 (EC=4.2 @ 2'-3')	NONE	NONE	N/A	---	Request No Further Action.	COGCC Std. for EC=4, site photos show good vegetation growth
YG-1	NONE	B2 (EC=5.66 @ 2'-2') B3 (EC=5.96 @ 1'-2') B8 (EC=6.00 @ 2'-3')	NONE	NONE	N/A	---	Request No Further Action	COGCC Std. for EC=4, site photos show decent vegetation growth (location to be re-seeded in 2017?)
YG-2	NONE	B1 (EC 8.58 @ 0'-1')	NONE	NONE	N/A	---	Request No Further Action	COGCC Std. for EC=4, site photos show good vegetation growth, comparison of field conductivity & lab EC values
DC-2	B2 @ 12' B3 @ 13.7'	B6 (EC=12.4 @ 2-3') B7 (EC=4.76 @ 0-1')	B3 (TPH=880 @ 11-12')	NONE	Deep Boring TD=50', Dry Hole	N/A	No action at this time, monitor vegetation growth & re-sample TPH after well P&A during final reclamation	COGCC Std. for EC=4 & TPH=500, site photos show vegetation growth (EC), allow time for natural attenuation (TPH), absence of shallow groundwater
DC-8	B3 @ 7.5' B4 @ 10' B5 @ 6', 12.7' & 14'	B8 (EC=6.07 @ 1'-2')	B8 (TPH=660 @ 16'-17')	NONE	N/A	---	No action at this time, monitor vegetation growth & re-sample TPH after well P&A during final reclamation	COGCC Std. for EC=4 & TPH=500, site photos show good vegetation growth (EC), allow time for natural attenuation (TPH)
GP-9	B6 @ 9'	B4 (EC=7.72 @ 2'-3') B8 (EC=9.33 @ 2'-3')	B4 (TPH=1,000 @ 6'-7') B7 (TPH= 600 @ 7'-8')	NONE	N/A	---	No action at this time, re-sample TPH after well P&A during final reclamation	COGCC Std. for EC=4 & TPH=500, (location to be re-seeded in 2017?), allow time for natural attenuation (TPH)

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GP-11	B1 @ 6' B5 @ 5.5' B6 @ 8' B7 @ 4'	B4 (EC=7.35 @ 1'-2') B5 (EC=45.3, SAR=35.7 @ 2'-3') B6 (EC=25.6, SAR=17.5 @ 2'-3') B7 (EC=26.0, SAR=17.8 @ 2'-3') B8 (EC=24.5, SAR=19.7 @ 2'-3')	NONE	NONE	N/A	---	No action at this time, monitor vegetation growth in areas of EC & SAR impact	COGCC Std. for EC=4 & SAR=12, site photos show good vegetation growth
GP-13	B3 @ 6'	B1 (EC=4.48 @ 2'-3') B2 (EC=6.96 @ 1'-2') B3 (EC=18.4 @ 0-1') B5 (EC=87.9, SAR=50.2 @ 2'-3') B6 (EC=5.46 @ 1'-2')	B4 (TPH=2,200 @ 5'-6') B7 (TPH=3,000 @ 10'-11')	NONE	Deep Boring TD=50', DTW=46'	NONE	No action at this time, monitor vegetation growth & re-sample TPH after well P&A during final reclamation	COGCC Std. for EC=4, SAR=12 & TPH=500, site photos show good vegetation growth (EC), allow time for natural attenuation (TPH)
GP-16	B7 & B8 @ 10'	B3 (EC=4.53 @ 2'-3')	B6 (TPH=940 @ 8'-9' & 1,200 @ 9'-10')	NONE	Deep Boring TD=50', Dry Hole	N/A	No action at this time, re-sample TPH after well P&A during final reclamation	COGCC Std. for EC=4 & TPH=500, site photos show good vegetation growth (EC), allow time for natural attenuation (TPH)
GP-19	B6 @ 7' B8 @ 4'	B7 (EC=10.6 @ 2'-3' & pH=11.7 @ 2'-3')	B6 (TPH=680 @ 5'-6')	NONE	Deep Boring TD=50', DTW=45'	NONE	No action at this time, re-sample TPH after well P&A during final reclamation	COGCC Std. for EC=4 & TPH=500, site photos show good vegetation growth (EC), allow time for natural attenuation (TPH)
MC-8	B2 @ 3' B6 @ 5' B7 @ 2'	B3 (EC=22.2, SAR=14.3 @ 1-2') B6 (EC=221, SAR=52.6 @ 2-3')	NONE	NONE	N/A	---	No action at this time, monitor vegetation growth in areas of EC & SAR impact	COGCC Std. for EC=4 & SAR=12, site photos show good vegetation growth
YE-6	B1 @ 11.5' B3 @ 11.5' B7 @ 10'	B1 (EC=14.8 @ 0'-1') B3 (EC=12.2 @ 1'-2') B7 (EC=15.4 @ 2'-3') B8 (EC=14.2 @ 2'-3')	B2 (TPH=1,000 @ 11-12')	NONE	N/A	---	No action at this time, monitor vegetation growth & re-sample TPH after well P&A during final reclamation	COGCC Std. for EC=4 & TPH=500, site photos show good vegetation growth & field conductivity values were low (EC), allow time for natural attenuation (TPH)
YF-3	B6 @ 9.5' B7 @ 12.5'	B6 (EC 6.41 @ 2'-3') B8 (EC 26.3, SAR 14.3 @ 1'-2')	NONE	NONE	N/A	---	No action at this time, monitor vegetation growth in areas of EC & SAR impact	COGCC Std. for EC=4 & SAR=12, site photos show good vegetation growth
DC-5	B1 @ 10' B2 @ 5', 8', 10' & 11'	B1 (EC=20.2 @ 2'-3') B3 (EC=6.51 @ 2'-3')	B4 (TPH=540 @ 9'-10')	NONE	Deep Boring TD=45', DTW=29.7'	TDS=12,500 mg/l Chlorides=5,040 mg/l Sulfate=5,240 mg/l	Install up to 5 shallow groundwater monitoring wells to determine flow direction & delineate chloride impact	Evaluate impact of drilling waste on shallow groundwater
GP-14	B5 @ 6' B6 @ 12.5' B7 @ 10.5' B8 @ 6' & 8'	B7 (EC=5.11 @ 2'-3')	B4 (TPH=980 @ 4'-5') B6 (TPH=550 @ 11'-12') B7 (TPH=1,000 @ 2'-3') B7 (TPH=2,400 @ 9'-10') B7 (TPH=1,100 @ 10'-11') B8 (TPH=5,300 @ 12'-13')	B7 (TPH=1,000 @ 2'-3')	Deep Boring TD=50', Dry Hole	N/A	Excavate & remove soil to depth of 13' from area around B7 & B8, re-sample TPH @ B4 & B6 after well P&A during final reclamation	TPH concentrations @ B7 & B8 significantly greater than COGCC Std. of 500, allow time for natural attenuation @ B4 & B6
YE-7	B2 @ 12' B5 @ 10.5' B6 @ 12.5' B8 @ 10.5'	NONE	B2 (TPH=11,000 @ 7'-8') B2 (TPH=2,100 @ 13'-15') B8 (TPH=580 @ 11'-12')	NONE	N/A	---	Excavate & remove soil to depth of 15' from area around B2, re-sample TPH @ B8 after well P&A during final reclamation	TPH concentrations @ B2 significantly greater than COGCC Std. of 500, allow time for natural attenuation @ B8